

The full gospel

The Commons debate on the future of the direct grant schools brought a further statement from Mr. Ernest Armstrong about legislation on the question of comprehensive schooling. "We are preparing the necessary legislation, and we shall certainly introduce it in the next session of Parliament if any authority still insists on retaining selection," he said. "It is no longer a matter of doubt but of certainty that some L.E.A.s will stand out against the policy of Circular 4/74, legislation now seems inevitable, though when it will be introduced is not by any means certain because of the heavy overloading of the Government's legislative programme. It is also suggested that the removal of fiscal benefits which independent schools now enjoy as charities, will be carried out in the same Bill."

When Mr. Reg Prentice came into office, he made it clear that he had three manifesto priorities: comprehensive education, ending the direct grant and taking away the charitable status of independent education. He is driving ahead on all three. Any one who would like to see some of Mr. Prentice's moderate pragmatism influencing his policy on any of these issues is likely to be disappointed. He knows he is regarded in his own party as a right-winger on many industrial matters and cannot risk being dubbed as a man of compromise on an issue of the Government's education too.

Many of the Labour Party's own supporters have doubts about what is being done now by the direct grant schools: to make some of the best

of them into independent schools is going to be Mr. Prentice's grotesque monument—the right-wing action of a man who must prove his left-wing credentials.

If there is to be legislation on the comprehensive issue—more symbolic than real, given the size of the recalcitrant group—let it cover the minimum ground and not go beyond 14. Sir William Pile made a passionate plea to the British Association for Commercial and Industrial Education for technical and vocational education to be treated with a new urgency. "Are we so certain now that it will never be right to envisage special institutions for particular kinds of education, such as vocational or technical studies, below the leaving age? All right, so no one is now urging a new universal pattern based on a renaissance of the modern technical school, but only a blinkered dogmatist could rule this out for the future under the odium of the *theologicalism* of the comprehensive doctrine. Yet this is what new, over-rigid legislation could now do."

As for the changes designed to remove fiscal benefits of some educational charities, the objective is clear enough and difficult to quibble with. But the pertinence and spirit which comes to the surface quickly when this is being discussed must not be allowed to cause the baby to disappear with the bath water. The Community Land Bill already shows how much incidental damage an otherwise well-intentioned Bill can do to institutions which serve the public good—for example, the churches and colleges of Oxford and Cambridge.

Fairness and due process

Industrial tribunals, which were set up in 1964, were given the power to hear cases of unfair dismissal by the 1971 Industrial Relations Act. Only recently, however, does it seem that teachers have been taking their complaints to them as an alternative to the traditional method of appealing to the Department of Education and Science. About half a dozen cases have come before them in the last six months or so (page 3).

It is right and proper that a teacher who has been dismissed—in his own opinion unfairly—should make use of every avenue open to him. If he does not agree with the findings of the tribunal, he could appeal to the Conservative Act, which was repealed last year—appeal to the National Industrial Relations Court, under Mr. Michael Foot's Employment Protection Bill he can go to an employment appeals tribunal.

It is also likely to be all to the good that local authorities, under the strictures handed out by the industrial tribunals, should look closely at their own grievance procedures. Where these are defective, or inadequate, no doubt they should be reformed, and it could be that new negotiations on model procedures will be needed at the national level.

In practice, of course, disciplinary action against teachers is extremely rare and heads are seldom sacked. It would be a damaging by-product of legal innovation, designed primarily to ensure fairness in employer-employee relationships in industry, if this were to lead to an even greater reluctance on the part of the L.E.A.s to carry out their managerial functions. Teachers need to be protected against arbitrary dismissal, and it must be part of the defence of professional freedom to defend the man or woman of unpopular views or original thought who falls out with the L.E.A. on matters which lie within his professional competence. But some would argue that already the head's position is, if anything, too secure, and timidly rather than aggressively, most L.E.A.s threatened by criticism from tribunals.

Out of court

Judge Glyn Morris has been widely reported for his courtroom remarks last week, that immigration had radically worsened the character of Britain. Since then two figures have been much quoted too: that 80 per cent of the so-called muggings—in fact robberies and thefts from the person—like bag snatchings, have been committed by young blacks and 85 per cent of the victims are white.

Why judges see themselves in the business of making generalised statements is a mystery which persists. It is difficult to think of a less responsible use of judicial authority. As the West Indian High Commissioners wrote in *The Times* of Wednesday, such remarks not only hurt race relations generally.

Two linked issues threaten communal peace—crime and unemployment. The immigrant community does not have a higher crime rate than the indigenous population. What is true is that for certain classes of violent crime there is a disproportionate number of young blacks among those charged. In fact, judges for Britain are not

available, but some clue may be offered by those for Lewisham, 207 muggings in 1974, 172 by blacks. Every case is one too many, but the absolute number of offences is small in relation to the population of potential delinquents, and it is well known that these figures fluctuate widely according to fashion in crime, "crime prevention" and crime reporting.

As to jobs—another issue which directly affects the schools—there is a fashionable progression: unequalled black school-leaver to inferior job, dubbed "black" job and refused. Planning policies in south London have made matters worse by shipping out or closing down much local industry. As the jobs market gets worse, the present slump, so do the social tensions and the likelihood that members of black communities will respond by militant protest or anti-social action. The judges' utterances were unhelpful and unfair, but he might just conceivably have performed a public service if he has drawn attention to the very serious underlying situation.

Two come down on the side of the comprehensive

The articles by Stuart Machue and Harry Judge particularly interest me, as a chief education officer, whose authority accepted my proposal that their reorganisation of secondary education should be on the basis of high schools from 11 to 14 and senior high schools from 14 to 18. That there should be no selection for different types of school before 14, as Mr. Machue argues, is in this authority at least widely accepted. In fact, it has been the practice since 1968. It is interesting to remember that, when I came into education administration after the war, the school leaving age was 14.

I part company, however, with Machue when he argues that different types of school should be tolerated beyond 14. Excluding the Roman Catholic high school and senior high school, this borough has nine "clusters" of high/senior high school. The annual entry to the senior high schools varies slightly, from 12 to 13, but in all cases it allows a wide variety of courses to be offered, not only in the fourth and fifth years but in the sixth and seventh years. Mr. Machue suggests that the 14 plus high schools could be comprehensive, or multi-lateral, or bi-lateral, or grammar (including the direct grant schools), or technical, and considers that "coexistence" at 14 plus is perfectly tolerable.

Tolerable it may be, but schools offering a specialized education must, in the present state of society, pecking order found in society, be able to attract a sufficient number of pupils to survive. The age-group is now just under 3,000 and rising. The senior high schools are fed by one or two high schools. Within the cluster there is a degree of cooperation and co-ordination and an effective system of guidance in the choice of the high school towards the appropriate choice of course in the senior high school.

If we were to substitute one "academic" senior high school and one "technical" senior high school, what would be the effect? It would break up the cooperation within the cluster, and a fifth or so of the high schools' pupils would be able to attend one of the "specialized" senior high schools. It would also create (in the current state of educational values) the old question of selection. Past studies when the 11-plus still existed have shown that, even in working-class areas, more than half the parents would have preferred grammar or technical schools. Would it be any different at 14-plus? Would selection be any easier or any more correct at 14-plus? If half the children opt for specialist schools then it was at 11-plus?

If it could be done—and if the wrath of those who did not get their

Dr. Harry Judge (May 2) hopes that the comprehensive debate is "moving out of the sterile desert in which it has been circling for five years and more." I think his hopes are justified. There is a feeling among "agents, administrators and politicians" that we are moving towards new life and growth, putting frustration and despair behind us.

This feeling can be attributed to two things. The first is that thinking about the possible size and range of comprehensive schools has loosened up and become much more flexible. Both Birmingham and Inner London have accepted the idea of comprehensive partnerships between schools of different sizes. Despite the financial constraints, this intellectual breakthrough has provided the conditions for creative experiment. The second, and more important, reason for optimism is that the Government are at last enabling local authorities to educate the children in their schools without subjecting them to the damaging process of selection. On the face of it, this is a truly revolutionary step. The fact which has persuaded me that it is on this point of selection that the Government are at last enabling local authorities to educate the children in their schools without subjecting them to the damaging process of selection. On the face of it, this is a truly revolutionary step. The fact which has persuaded me that it is on this point of selection that the Government are at last enabling local authorities to educate the children in their schools without subjecting them to the damaging process of selection. On the face of it, this is a truly revolutionary step.

As a parent who has been campaigning for several years for the end of selection, I am deeply discouraged by the backsliding on the comprehensive issue in recent weeks. The TES is to argue that selection at 11 is all wrong, but

No time to lose our nerve

choice could be resisted (partly the CEO)—what would be the effect on the remaining schools and their pupils? It would surely make it more difficult for those schools to provide adequately for their intake. They would still have to provide for all abilities and choices and could not simply assume that all the ambitious and able children were provided for elsewhere. Therefore, the existence of two preferred schools would make it more difficult for the remaining schools to secure well-qualified and able staff. It would not be, in Machue's phrase, "a rich variety of post-14 solutions", but an impoverished opportunity for the majority—and it is for the majority that Mr. Machue is rightly concerned.

It is always dangerous to apply systems that work in one geographical and social situation to a different milieu. The English scene is not the same as the American. We should not attach too much importance to a view of English grammar schools expressed by some Americans (did Mr. Machue ask them what they thought of English secondary modern schools?), or to an English view of some American city schools. Even in this country, the solution which fits a compact borough may be impracticable in a county or in an large authority area. But, if you offer parents a number of equally (or reasonably) accessible schools, whether at 11 or 13 or 14, and say that this one specializes in academic courses and this one in technical courses (to use Mr. Machue's words) while the others are to offer some thing, non-descript which the Authority can use as a reserve force, it is less valuable, you create the problem of selection to which there is no just and acceptable solution.

Apart from this one flaw, Mr. Machue's article is most welcome and constructive. Yes, the object must be to take a much larger school, through the secondary school. Yes, our examination system must be reformed or abolished and what a vast amount of money would be saved if it were. My authority expect to spend £50,000 on GCE and CSE examination fees, and they form about 1/200 of the population of England and Wales. The total involved for the country must therefore be about £10m. Yes, by forming middle and senior schools we relieve ourselves of the difficulties of the very large school, and we force ourselves to rethink the curriculum of the middle school.

Back where we started

selection at 14 is all right, it is to show that the basis of the case against selection has not been understood.

Perhaps this case would be more obvious if we started talking about "rejection" rather than "selection". The one is a corollary of the other and the two describe the same process—that of saying to people, pupils and their parents, that they are not allowed to pursue courses and attempt to qualify in ways that they want to, or are not deemed suitable to be taught with groups they want to be with. We are at present obliged to operate a system of rejection at the point of entry to higher education. We are also obliged, for the same reason that we were obliged 40 years ago to operate such a system for secondary education, namely that we do not feel rich enough as a nation to provide it for more than a fraction of the population. The rejection at 18 seems no reason to practise it at 14—rather the reverse.

I do not think it is possible to argue (as Harry Judge implies) that a system of different types of institutions for different kinds of aptitudes and abilities after 14 would not lead to rejection. The painful thinking that pupils naturally start themselves out (in

and of secondary general.

The break at 14 advantages, it is a school for boys and the upper school for girls or young adults. The number of schools is higher than the total roll, but in an 11-18 school the influence and leadership do not like it they must come with alternative suggestions for education spending.

Mr. Machue sees, in published on Wednesday, Prentice said next year there would be greater austerity all round. Some teachers would probably find themselves without a job, and there could be other non-teaching costs. It is a very painful choice, painful for me and painful for Labour councillors, but the education secretary has to face up to the economic situation like every other.

The Education Secretary's warning brought strong criticism from members of the National Union of Teachers. Mr. Fred Jarvis, general secretary of the NUT, said the best and brightest were likely to be lost. "Train the education cuts and the rest?", but what was the change of line?

First of all we are told there will be no teacher unemployment and that everything will be done to ensure there are jobs for all trained teachers. Now, said Mr. Prentice, says there may be unemployment next year. It is a very painful choice, painful for me and painful for Labour councillors, but the education secretary has to face up to the economic situation like every other. Mr. Prentice also said he intended to "squeeze" the public schools even harder by removing their charitable status. "They will become a tiny sector catering exclusively for the very rich, rather than simply the rich, and for that reason they will become less and less important in the educational and social fabric of the country." It is thought that repeal of charitable status will come as part of a Finance Bill sometime next year.

The author is chief officer of Waltham Forest.

administratively (one) to different schools, enjoying many advantages. This has been exposed in all our experience. In any system there will always be pressure to put academic importance on the rejected. This is the case in the school? The new grant who has not yet late, developer? Behind a lay in for the rejection of the best of the grammar and other and a feeling that the asset is being carried away. It is deep in this feeling. The schools there are teacher judgement and the school had been able to think the effect of tribunal

Those who fear the of these questions in a system only when enterprise is the safe in a choice between the school and the school. The school population in London is expected to fall from 1,027,000 to 720,000 over the same period, while in East Anglia it is expected to rise from 217,000 to 328,000. There will be falls all over the country but they will be least severe in the East Midlands, the

Out or be cut, warns doomwatch Prentice

Sue Cameron

Reg Prentice, the Education Secretary, this week warned teachers of unemployment next year. He told teachers' unions that if they do not like it they must come with alternative suggestions for education spending. In an interview in *Labour Count*, published on Wednesday, Prentice said next year there would be greater austerity all round. Some teachers would probably find themselves without a job, and there could be other non-teaching costs. It is a very painful choice, painful for me and painful for Labour councillors, but the education secretary has to face up to the economic situation like every other.

The Education Secretary's warning brought strong criticism from members of the National Union of Teachers. Mr. Fred Jarvis, general secretary of the NUT, said the best and brightest were likely to be lost. "Train the education cuts and the rest?", but what was the change of line? First of all we are told there will be no teacher unemployment and that everything will be done to ensure there are jobs for all trained teachers. Now, said Mr. Prentice, says there may be unemployment next year. It is a very painful choice, painful for me and painful for Labour councillors, but the education secretary has to face up to the economic situation like every other. Mr. Prentice also said he intended to "squeeze" the public schools even harder by removing their charitable status. "They will become a tiny sector catering exclusively for the very rich, rather than simply the rich, and for that reason they will become less and less important in the educational and social fabric of the country." It is thought that repeal of charitable status will come as part of a Finance Bill sometime next year.

He is undermining the morale of the teaching profession and he broken his pledge to consult the teachers' unions. It seems that all that is needed is the change of attitude on the part of the profession and we will have a crisis. If cuts have to be made in the education service I suggest start by sacking half the civil servants in the DES. We are badly over-staffed.

Both Mr. Jarvis and Mr. Morris inferior. "It is not the NUT's job to test alternative ways of making But Mr. Prentice told the TES that the teachers' "cannon it both ways".

Tribunal slams l.e.a. over sacking

current crop of sacked teachers and their cases to industrial tribunals may force some local authorities to revise their procedures for dealing with grievances. Last week Mr. Arvind Patel, who was dismissed from his post as head of the primary school to which his son was awarded £1,300 compensation by an industrial tribunal, also recommended that Mr. Patel be reinstated and that the treatment he had received from his authority as a head of justice.

Mr. Patel was sacked for refusing to follow the instructions of the head of the primary school to which his son was awarded £1,300 compensation by an industrial tribunal, also recommended that Mr. Patel be reinstated and that the treatment he had received from his authority as a head of justice. Mr. Patel said it was only when he was told by the tribunal that he was not to be reinstated that he was willing to go to the tribunal. Unlike Lincolnshire, the tribunal had been able to think the effect of tribunal

Numbers up in East Anglia, down in London

numbers at school in East Anglia should rise by a fifth in the next year, in London they are to drop by nearly a third. The Office of Population Censuses and Surveys figures show that the size of the 14-year-old population in England and Wales will probably be 650,000 in 1986, compared with 700,000 in 1973. It may in

One in three fails to find a job

A survey of London colleges of education this week reveals that up to one third of students qualifying this year will have no teaching job to go to. The survey, by the Inner London Teachers' Association and Institute of Education Students' Association, London University says at least 70 students at Avery Hill College have been rejected for jobs by the Inner London Education Authority.

At St. Gabriel's College, 23 out of the 80 qualifying this term have been turned down; at Goldsmith's College 24 have been unable to find jobs; 48 at Rachel Macmillan College and 20 at Maria Grey College are in the same position. The hardest hit will be mature students who find it difficult to move to another part of the country because of their families.

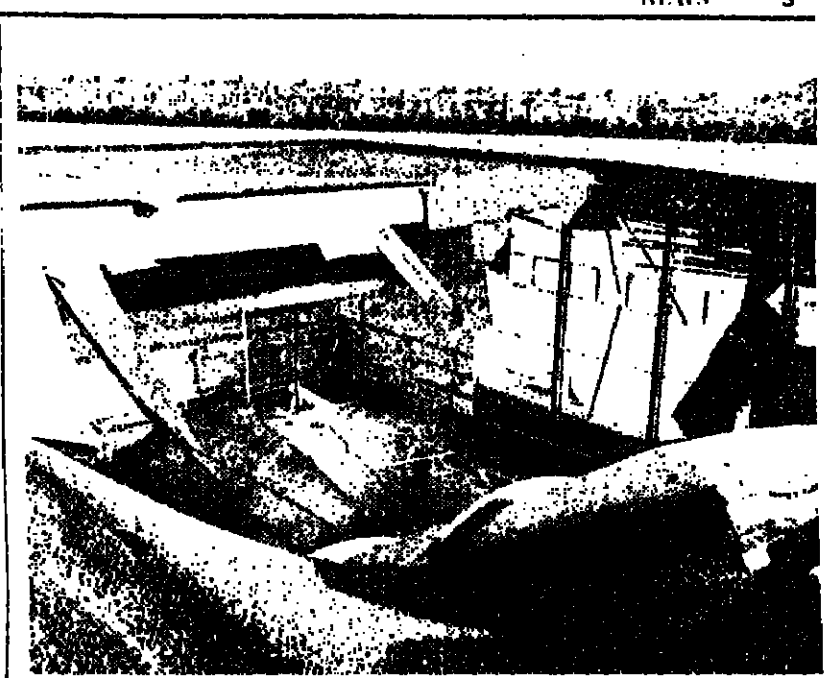
ILEA are unwilling to employ them because they qualify for up to seven salary increments simply because they are older. They will therefore be a greater drain on the budget than younger teachers. Mr. Fred Jarvis, general secretary of the National Union of Teachers, said the survey gave "very great cause for concern." "It could be that hundreds or even thousands of newly-qualified teachers will not find jobs next year."

Mr. Charles Clarke, president-elect of the National Union of Students said: "It is an absurd situation in which people who have been expensively trained to teach, who want to teach and who have a great deal to offer to London's schools, will be unable to work in them."

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Major items in the education budget

	£'000	School transport	40,331
Teachers			
Primary	453,726	Food, milk and provisions	85,108
Secondary	491,787	Local authority loan charges	239,839
Further education	218,529	Local authority administration	65,450
Other staff	428,202	Total DES current spending	50,064
Repairs	88,252	Total current spending on education	2,678,400
Fuel, light	79,341		
Rent and rates	86,577		
Books	28,270		
Equipment and stationery	73,904		
Student and pupil grants	125,577		
		1972-73 figures	



Collapsed roof of the Ilford swimming pool.

L.e.a.s told to check roofs

Schools are being asked to check timber roofs over kitchens, laundries and swimming pools in the light of a Government report on a collapse at an Ilford secondary school in October.

There were no casualties when the roof of the Ilford County High School swimming pool collapsed in the middle of the night, but the Department of the Environment have told all building control authorities to investigate roofs constructed with plywood box beams. The Department of Education and Science have drawn the attention of all L.E.A.s to the report by the Building Research Establishment and told them to give guidance to schools on how to check roofs.

Condensation in the roof void and additional loading on the beams in the form of extra layers of felt and chippings are given as the main causes for the collapse. The central third of the swimming pool roof collapsed when seven plywood box beams fractured. The structural design of the beams is not criticized, but the report says that some years after the roof was erected extra layers of felt increased the load by 67 per cent.

The design of the roof caused condensation and wetting of the beams in winter and drying out in the summer. Periodic wetting gave rise in decay and progressive bending was increased by the extra dead load.

In normal dry conditions—in offices, classrooms, halls and work rooms—there is no significant risk. The DES are helping the BRE in a pilot survey to provide more information on buildings with high humidity and condensation risk.

The Past, Present and the Future of Life and Work at Sea:

A Documentary Inquiry
FRANK E. HUGGETT

This is a comprehensive survey of all aspects of life at sea with chapters of Adventurers and Discoverers, East Indians and Pirates, The Press-Gang, Nelson's Navy, Britannia Rules the Waves, The Merchant Service, Total War (First and Second World Wars), and The Sailor Today and Tomorrow. Source materials are largely books of memoirs and accounts of exploration. The book makes very interesting general reading, as well as stimulating background material for project work. At the end of the book there is a bibliography and a glossary of maritime terms and details of some museums and societies. £3.95

Reilly June

The French Revolution

RUPERT BUTLER

This is the first time using a new formula for the successful *As They Saw Them Series* in which illustrations are used more freely and more effectively. This book covers the period from the Summoning of the Estates General by the King in 1789 to the ending of the Reign of Terror and the Establishment of the Directory in 1795. The dramatic events of the Revolution provide a wealth of exciting pictures, and the illuminating text is drawn from contemporary accounts. This book, like the others in the Series, is particularly suitable for young people from 12 to 18. £2.50

Reilly June

A Sketch-Map Economic History of Britain

J. L. GAYLER, IRENE RICHARDS and J. A. MORRIS
The fifth edition of the *Sketch-Map Economic History of Britain*, first published in 1967, has been enlarged to include the economic history of the 1960s and early 1970s, thus presenting an informed economic history of this country from earliest times to the present day. The material covers a discussion of economic growth, inflation, balance of payments, energy, problems, transport, trade unions, population and economic and social policy. An ideal text for G.C.E. 'O' and 'A' level study. £2.60

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Law on comprehensives 'next session'

Legislation to ensure comprehensive education throughout the country would certainly be introduced in the next session of Parliament, if only local education authorities still insisted on retaining selection, said Mr Ernest Armstrong, Under Secretary for Education and Science, in a Commons debate this week.

It is, of course, already known that a Bill is being prepared. What is new is the carefully-worded indication that it will come next session. Mr Reg Prentice, the Education Secretary, was on the Government Front Bench at his junior Minister replied to the debate on an Opposition backbench motion.

It is clear that the Department of Education and Science have had necessary clearance from the Cabinet's legislative committee for a Bill next session if Conservative-controlled local education authorities still hold out against total comprehensive education.

Mr Armstrong set out to rebut strong charges made against Government policy by Mr William Shelton (Lambeth, Stratham, C) and Mr Norman St John-Stevens, the Opposition spokesman on education.

'Rule by circular' condemned

Mr Shelton, initiating a debate on grammar and direct grant schools, called attention to Mr Prentice's attempt to alter the status and structure of these schools without direct legislative sanction.

He moved: "That this House deplores the substitution of the rule by circular for the rule of law, and the reckless disregard by the Secretary of State of the harmful effects of his policy on educational standards." The motion was talked out, and there was no decision on it.

On the rule of law, Mr Armstrong

said that under Section 1 of the 1944 Act, the Secretary of State had a duty to secure the effective execution by local authorities under his control and direction, of the national policy for providing varied and comprehensive education service in every area." Circular 4/74 spoke out that policy.

The Government had never said the circular carried the weight of law, but so far only seven authorities, out of 97, had resisted the Government's invitation to comply with national policy.

The Government would not attempt to enforce their direct grant proposals without legislative sanction. No primary legislation would be needed to accomplish the aim set out in the Secretary of State's statement of March 11. The relevant statutory regulations would have to be changed, however. Mr Prentice and Mr John Morris, the Secretary of State for Wales, intended to make the appropriate regulations under Section 100 of the Education Act 1944 and to lay them before Parliament as prescribed in Section 112.

Meanwhile out of consideration for the interests of all concerned—pupils, parents, staff, governors and L.E.A.s—and at the request of the schools' representatives, the DES had indicated the gist of the proposed regulations, so that schools might have as long as possible to consider their position and their intentions. There was no command, demand or threat in the letters sent out by the DES.

Mr Shelton attacked the Minister for issuing circulars and letters in an attempt to browbeat local authorities into changing their views. He understood that Mr Prentice had castigated at least seven councils for not falling in with his wishes. He referred the Secretary of State to an interesting letter in the *TES* which said that phrases such as this were

the last resort of the demagogue, thwarted in the unconstitutional use of power. The seven councils were not rebels. They were councils operating and acting entirely within the law of the land. If the Secretary of State wished to change that law, his remedy was in the House of Commons.

Towards a middle school system

Mr Christopher Price (Lewisham West, Lab) said he did not know whether the Secretary of State had read in the *TES* not the article about the 14-plus—which contained some interesting ideas, since the difference between the ages of 14 and 16 was not all that great—but the original article about direct grant schools.

"The *Times Educational Supplement* is not a left-wing publication. Indeed its editor, whom I very much respect, is sometimes thought to be the friend and mentor of the Conservative Central Office. I have no idea whether that is true but some people tell me that it is so."

Mr St John-Stevens commented, "Not me."

Mr Price continued: "The *TES* had a plea for the ending of the direct grant system cleanly, quickly and once and for all so that people know where they are."

Mr St John-Stevens referred to the editor of the *TES*. He pointed out that in the long run they might wish to move towards a middle school system. "With the limited information at my disposal," said Mr Shelton, "I believe that this is the way our system should move. Nevertheless we do not know that for certain."

In five or 10 years they might be criticizing that system in the

same way as he was criticizing the large all-through comprehensive system. That was why the Opposition had said repeatedly an independent inquiry was needed into educational development.

Mr St John-Stevens also argued it was wrong in principle to use the technical device of the building programme to coerce local authorities. There was also the practical limitation that there was no secondary school improvement programme existing. His arguments applied with even greater force to the voluntary aided schools.

The same ignoring of the law and cavilling about procedure for Parliament was reflected in the nine-page letter demanding statements of intention from direct grant school governors. Whether L.E.A.s were opposed to selection or not, they were obliged by law to provide a genuine selection procedure. If they did not wish to do that they must apply under a Section 13 notice procedure which had to be confirmed by the Secretary of State.

Mr Armstrong said the Government believe that the motion would mean, in practical terms, the re-allocation of scarce resources to a narrow, privileged sector. It could be implemented only at the expense of other parts of the service, such as educational priority area schools and neighbourhood comprehensives.

Building programmes were instruments of educational policy and had been used as such by successive Secretaries of State, including Mrs Margaret Thatcher, Mr Prentice's predecessor. It was done when Mr St John-Stevens was in the department and it would be done by successive Secretaries of State. There was nothing new in this. The Secretary of State was acting in accordance with the power given him in Section 1 of the 1944 Act to guide, direct and persuade L.E.A.s to accord with national policy.

PERSONAL COLUMN

Tom Howarth Strange straws in the wind

gerous talk. The monasteries were medieval institutions and they were stripped of their treasures as Mr Prentice wants to strip us of ours. But the very suggestion that the universities have anything to learn from the Middle Ages, since Matthew Arnold pronounced his definitive elegy on the old Oxford, would have seemed hilarious in the 1960s.

Even odder have been the proceedings in the world of Cambridge mathematics about which we learnt from an article in *Stop Press*, the subsidized undergraduate sheet, headed "TM in the MT". There is a mathematics liaison committee, composed of members of the faculty board and undergraduates, which discusses the tripos. The senior members were confronted with the highly novel proposal that transcendental meditation (vulgarily TM) should be included as an optional course in part 1A of the maths tripos.

Indeed an academically distinguished fellow of Trinity is reported as saying: "Since taking up TM I have found it easier to concentrate on jobs that have to be done. Through the language is disturbingly reminiscent of the deceptions of Win-carnis or Eugene Sandow, the experience is, no doubt valid. Indeed, we hear from the article that 200 students in the university are already meditating, though I must say that many more are still making a lot of a noise in the pulpit."

We are told of TM that "when practised twice a day for 15 minutes, it is found to develop full adaptability, stability, integration, purification and growth in the physiology, psychology and social behaviour of the individual." These are big claims, much bigger than those made for the old maths. And it is a long time since I read an old-fashioned school chaplain claim

Deaf units criticized

Special units for deaf and hearing children attached to primary schools have been criticized by the National Deaf Children's Society.

In a report published last week, the society says the units, started with the hope that, by the age of 12, deaf children would be integrated that they could attend ordinary schools. Unfortunately, this policy has failed in many cases.

Even though the children are helped from teachers many are returned to special schools for deaf children, which may be a partially hearing unit, do not have them. With the Cumbria have no secondary provision at all.

The report suggests that the units should cooperate to plan regionally.

Secondary Provision for Deaf Children, National Deaf Children's Society, 31 Gloucester Place, London W1, 20p.

Homes sought

The Campaign for the Mentally Subnormal has urged parents to help their children find a home.

In a report published last week, the CMH says that the best way for a child to learn is by living with a family.

We will not accept anything less than a comparable rise to the wages of the arbitrators, and we will not begin to talk of this latest offer."

There are 102 vacancies for people in Fife and about 1,500 leavers are expected to be looking for jobs this summer, said Robert Gough, vice-convenor of the Education Committee, which is organizing a campaign to help leavers find work. The committee is also looking for jobs.

Fife job race

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Psychologists angry over Soulbury snub

Mark Vaughan

Educational psychologists, furious at the latest pay offer made to them in Soulbury Committee negotiations, are threatening to go on strike if the offer is not accepted. The offer is not only a 5 per cent increase for most ordinary schools, but a 3 per cent increase for the 550 educational psychologists.

It was "abysmal", said Mr Conrad Graham, chief educational psychologist for Brent and a representative on Soulbury, said that management offer meant only a 5 per cent increase for most ordinary schools, but a 3 per cent increase for the 550 educational psychologists.

He said educational psychologists were united in rejecting the offer. Increases ranging from 5 to 15 per cent. They wanted a Houghton spokesman for the authorities to suggest they had offered 10 per cent for most educational psychologists. "The average is 10 to 12 per cent. We think it is a very reasonable offer in shape and we have said that it is a fair offer but a negotiable one."

What is particularly annoying to psychologists is that they have been offered considerably less than some staff whose salaries are negotiated through Soulbury.

Mr Graham said: "We think we are being treated abominably in these negotiations. If necessary we will walk out of Soulbury to get our way."

We will not accept anything less than a comparable rise to the wages of the arbitrators, and we will not begin to talk of this latest offer."

EWO conference

Teachers who quit their classrooms to stage protests must take blame for their pupils' violence, says a report from the Education Welfare Officers' Association.

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Students to lose seats on poly board

Mr Reg Prentice, the Education Secretary, has approved North London Polytechnic's plans to cut the size of their academic board from 89 to 50 and reduce student representation from 30 to 11. He has ignored the last-minute plea by Mr Terence Miller, the director, for an even more drastic reduction in the number of students on the board.

Ten students will be elected from within their faculties; the final place is reserved for the president of the students' union. Staff members will also be elected and it is thought that voting will take place this term.

Mr Miller wanted to cut student places to six and suggested this in a letter to Mr Prentice earlier this year. The furor in the polytechnic and the Inner London Education Authority when this became known led to a call from the polytechnic's governors for Mr Miller's suspension. The governors will meet next week to decide what to do about their director.

Meanwhile, the joint advisory committee set up by the ILA to look at the polytechnic's problems have produced their second report. This implicitly criticizes Mr Miller's action in suggesting further cuts to Mr Prentice after various committees in the poly had agreed on the composition of the academic board.

The report says that loyal acceptance of decisions arrived at through the committee structure could overcome the difficulties of North London.

Another problem facing the poly is the visit by the Council for National Academic Awards on June 13. The CNA is going back to see if there have been improvements since their highly critical inspection two years ago.

Gateshead to sound alert on problem families

When a problem family moves out of Gateshead in future, every local authority in the country will be alerted by Mrs Evelyn Henty, a Gateshead councillor and social worker.

Gateshead Social Services Committee had decided to do this because when children at risk were identified, their families often moved elsewhere, and the information built up about them was lost.

Information would be passed to the authority in the problem family's new area. If the family's whereabouts were unknown, every authority in the country would be informed. This could reduce the number of children at risk.

Mr Fred Brackstone, from South-sampton, urged that more should be done to identify children at risk who are not covered in houses. Heads of primary schools should encourage teachers to look for children who were constantly coming out of their desks to seek attention, or showed other more subtle signs of distress.

If there was sufficient trust and liaison between police, social services, medical authorities and education, officers could be alerted to a child who was a risk to himself or others.

Though in theory the officers could see school records, in practice all they were told was that a child was truant. In some cases, the so-called truants were more effective EWOs than the school staff.

His research showed that large and small schools produced proportionally more referrals to education welfare than small single sex ones. Each EWO got an average of 30-40 new referrals each week. "This means there is a steadily accumulating workload."

The service must evolve methods for reducing case-load, and if it is to be more efficient, it must make time to keep proper records so that officers can evaluate their own work. What that means is that EWOs must be able to say no to referrals.

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New union takes the road

The newly-formed Association of Teachers is being publicly supported by Mrs Margaret Thatcher, leader of the Opposition and former Education Secretary.

Mrs Thatcher sent a message to the association's inaugural conference in Leeds congratulating Miss Pennie Yaffé on her appointment as general secretary and sending best wishes to the members.

Miss Yaffé, who has agreed to work without pay for a year, said this week that the ACT now had more than 1,000 members, most of them women. Many of them were former members of the Union of Women Teachers and the men who had joined had nearly all come from the National Association of Schoolmasters.

At the conference Miss Yaffé described the other teachers' unions as "failures". Many large unions, she said, were influenced by small, disruptive groups of extremists who were able to wield power because the "silent majority" refused to become active in union affairs.

"I am certain that if all members of ACT become involved in the affairs of their association and their profession, the numbers, comparison with the small numbers of active members in other unions, will be more than comparable."

"We have called this new association into existence not to add to the number of teachers' unions but to redress the balance of society through the education of its future citizens. Other unions have been unable to do this."

The association called for: ● A higher level of academic standards and training for teachers. ● A teaching council to improve the status of the profession. ● Priority for handicapped and linguistically and socially deprived children. ● An end to sex stereotyping in schools, particularly in connection with girls' careers. ● Equal promotion prospects and not just equal pay on Scale 1 for women teachers. ● A career based salary structure aimed at rewarding long serving classroom teachers who do not want promotion to administrative posts. Although Miss Yaffé, who is the only full-time official of the new union, has agreed to work for nothing for a year, individual members of the ACT have ruled £1,400 to buy her a car.

New Titles

Special Provision for Reading: When Will They Ever Learn?

David Moseley. A well written and extremely interesting account of the research findings which are relevant to the planning of special educational provision for backward readers, which will appeal to a wide readership. £5.45

Teaching and Understanding Drama

Edited by Norman Stephenson and Denis Vincent. This book had its origins in the International Conference on Teaching and Learning English and presents the views of people who have ventured beyond the limits of how to take a lesson into deeper consideration of the significance of drama for the individual child. £1.75

Aims, Influence and Change in the Primary School Curriculum

Edited by P. H. Taylor. This collection of papers focuses on the processes involved in the primary school curriculum. Its great value springs from the fact that it studies various aspects of the curriculum in operation, showing how unrealistic it is to adopt a once-and-for-all attitude to a situation that is essentially dynamic. £3.75 (Publication: June)

The Immigrant School Learner: a Study of Pakistani Pupils in Glasgow

L. Dickinson, A. Hobbs, S. M. Kleinberg and P. J. Martin. This study, sponsored by the Scottish Education Department, examines the language, attainments and problems of immigrant pupils in Glasgow primary schools. The findings, which are relevant to any British city with an immigrant population, lead the authors to recommend the appointment of home-school liaison personnel with special responsibility for immigrants. About £3.75 (Publication: June)

The University Connection

W. R. Niblett, J. R. Fairhurst and D. W. Humphreys. A fascinating historical study of the growth of the Institutes of Education, drawing on a great deal of previously unpublished material. £5.45 (Publication: June)

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Department of Education and Science
Scottish Education Department
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IN-SERVICE TRAINING IN EUROPE

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THE CENTRAL BUREAU FOR EDUCATIONAL VISITS AND EXCHANGES
Teacher and School Exchanges (Europe) Department
England and Wales: Northern Ireland: Scotland:
25 Bedford Square, London WC1N 3EU Tel: 01-462 8101. 25 Bedford Square, Belfast BT1 1PU Tel: 0232 442 8004. 25 Bedford Square, Edinburgh EH1 1JH Tel: 0274 8611.

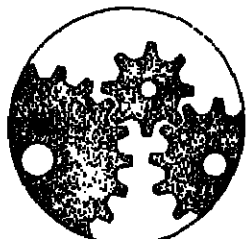
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The Registrar, Polytechnic, Plymouth, PL4 8AA



Nearly 100 Tudor and Jacobean portraits from the National Portrait Gallery are now on permanent view at Montacute House, Somerset, as a result of cooperation between the gallery and the National Trust, owners of Montacute.

The portraits have been brought out from the obscurity of the gallery's storerooms to be seen in the sort of setting for which they were intended, and Montacute, where the long gallery and adjoin-

ing rooms have been rescued from decay, has on display portraits of notable personalities of the period covering the early days of this great Elizabethan house.

It is hoped that this venture with surplus stocks from the gallery will be followed by similar operations involving other periods and other houses in other parts of the country.

The display at Montacute should prove particularly attractive to schools for the way in which it brings house and history together.

The National Portrait Gallery education officer is organising special guided visits for school and college groups (who should already be familiar with the gallery).

These visits, between July 14 and 11, must be booked in advance. Inquiries to the Education Department, National Portrait Gallery, Martin's Place, London WC2H 0HE. Tel. 01-930 8511, ext 53.

● Above—left: James I (attributed to R. Lockey); right: Sir Francis Drake (artist unknown).

80 groups in campaign for educational TV channel

While the Annan Committee considers, among other things, the best use to which a fourth television channel could be put, about 80 groups and associations have joined together to campaign for a national education channel. Last Saturday they held their inaugural meeting and elected Mrs Mary Dalton, president of the Open University Students Association, as chairman.

The OUSA called the meeting as they feel they have a special case to make. With more OU courses using television, OU programmes are being pushed into early morning and late evening slots.

Mrs Dalton said: "It's just not on to concentrate on a complicated psychology test at 6.40 in the morning, because you're still half asleep."

The association have given evidence to Annan but they do not want the new channel to be exclusively for the Open University. They believe there is considerable potential for television education, from pre-school to university level, including non-academic interests and hobbies.

Such a channel would be "the envy of the world", according to Mr Allister Wilson, director of Humberston ETV. Television was a most potent medium for instruc-

tion and there was a new and untapped audience for educational programmes. This had been proved conclusively by the unprecedented and unexpected audience for the Open University.

No new audience could be found for general entertainment programmes. "In New York there are 13 channels of general entertainment. I watched a viewer there turn on the television, without even consulting the programme guide. He just flicked through from channel to channel and by remote control as well. This is a terrible cheapening of the medium."

The strength of the existing channels at music media was also their drawback. The IBA had to woo viewers to gain the biggest audience for advertising revenue and the BBC had chosen to compete with them on audience ratings.

Mr Wilson said the great difficulty was how to finance the new channel. The BBC could not afford it at the moment. The IBA could afford to, however, and they have the studio space and staff.

Commercial in the middle of programmes would have to be banned, but a compromise with the IBA would be better than higher fees for those who watched the new channel.

How to conduct a campaign

Rational argument and the usual channels are a waste of time for parents looking for a better education for their children, according to the Registrar of Parent Campaigns. Published this week by Where?

the parents' magazine of the Advisory Centre for Education, Cambridge, the register pools experiences from 52 campaigns by parents in England and Wales.

The usefulness of good information and statistics is the asset most commonly mentioned by these groups. One of the most successful tactics was for parents to call the fire authorities into an overcrowded school. For a Reigate school this resulted in immediate delivery of extra temporary buildings.

Most effective tactics include lobbying MPs, arranging for thousands of letters to be sent to decision

makers, keeping children from school, working through councillors rather than local education authority officials or working through officials rather than councillors.

Least effective tactics include lobbying MPs, political divisions in campaign groups, trusting the school psychological service or believing the L.E.A. Some groups found the term "action group" alienated would-be supporters.

A Norfolk group claim to have achieved their "pro-comprehensive aims" and the Winchester Association for the Advancement of Schools Education describe their achievements as "informing ourselves" and their best tactics as "keeping good relations with the L.E.A."

The Where Register of Parent Campaigns from ACE, 32 Trumpington Street, Cambridge, CB2 1QY, 65p.

Agency would find homes for offenders

A central allocation agency to ordinate accommodation for young offenders should be set up, as there are no places in communities in their own areas, room can be easily found elsewhere.

In a book published last week, Mr John Watson, former chief clerk of the Inner London Council, and Mrs Patricia Austin, the chief clerk, recommend that there should be more secure community homes.

An allocation agency would be set up as an advisory body to the local authority having no power to place for a juvenile remand centre, the duty to provide a secure place would fall on the agency. Those in charge of secure homes should be obliged to take and keep any child sent to them.

The authors also want a constituted remand centre to be set up as an advisory body to the local authority having no power to place for a juvenile remand centre, the duty to provide a secure place would fall on the agency. Those in charge of secure homes should be obliged to take and keep any child sent to them.

Supervision orders should be strengthened by giving more power. If a juvenile under 17 takes no notice of his supervision order, the supervisor can only get the order replaced by a care order. Courts should be able to impose supervision orders with a ruling that the child must go to a particular centre. This would be a pressure on community homes.

Local police should be given a liaison bureau to co-ordinate their efforts in their use of police powers. A crime in one part of the country should not mean a different treatment in another.

The law should be amended so that if several children commit an offence and one of them is sent to court because he seems to be the most serious, the others should also appear. At the moment if a boy from a good home and a deprived child commit an offence together, only the deprived child appears in court. This can appear to be a life-long sense of injustice.

The Modern Juvenile Court, John A. P. Watson and Patricia Austin, Shaw £3.50.

Patience and skill trap new particle

At the risk of becoming a bore about the excitement of the physicists at the discovery of new particles of matter, I now report the discovery of yet another particle by two physicists at the State University of New York, Buffalo.

The people concerned are P. L. Jain and B. Girard, and they report their discovery in *Physical Review Letters* (May 12). It is an exceedingly elegant piece of work and certain to point the way to the discovery of the other new particles whose existence has been on the cards ever since the announcement last November of the discovery of the first of the two *psi* particles at Stanford and Brookhaven in the United States.

It is worth remembering, of course, that last November's discovery of the first two *psi* particles was largely circumstantial. At Stanford, for example, the first sign that something odd was happening was the recognition that positive and negative electrons colliding with each other were more likely to interact, producing other particles of matter, when their combined energy amounted to the equivalent of 3,100 million volts than when it was slightly different from that. Later, it became apparent that the disintegration of the *psi* particle could often be recognised by the appearance of a pair of mu-mesons.

But since the *psi* particle itself, like the heavier version whose mass corresponds to an energy of

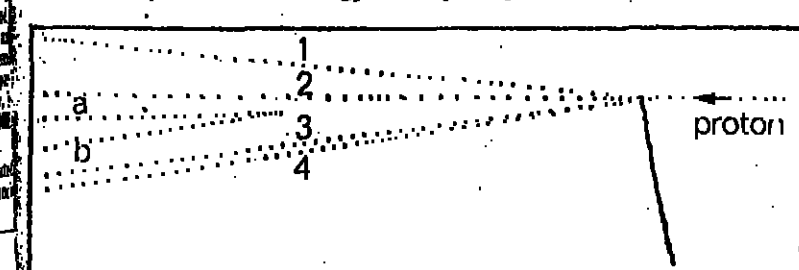
Science diary by John Maddox

course, new, and is indeed the technique by means of which the late C. F. Powell unravelled the properties of mesons in cosmic rays nearly 30 years ago.)

With patience and skill it is possible to measure tracks which are no longer than a few thousandths of a millimetre, so that there is a chance that the existence of exceedingly short-lived particles can be confirmed directly.

Jain and Girard have won a rich harvest from their first attempt. The accompanying diagram is a tracing of one set of tracks they have found.

A proton enters the picture from the right and collides with some atomic nucleus at the point, from which the heavy track of a nuclear fragment moves off more or less at right-angles. The tracks labelled 1,



Tracks found by Jain and Girard

3,800 million volts, carries no electric charge, there is no hope of observing it directly by means of the usual instruments for recognising particles of matter. Another snag is that these particles are inherently so unstable that they do not travel very far before disintegrating.

Thus the lighter *psi* particle has a lifetime of the order of a millionth of a microsecond, so that even if it is travelling with the speed of light, on the average it will only travel for a tenth of a millimetre before disintegrating.

It is this last difficulty that has driven Jain and Girard to think of using photographic emulsions for detecting these unstable particles. What they have done is to expose a beam of photographic emulsions to the beam of protons from the Fermilab accelerator near Chicago and to look for the tracks of particles which become apparent in the photographic grains of the emulsion after this is developed. (The use of photographic emulsions for the detection of particles is not, of

2, 3 and 4 are caused by the nuclear particles produced in the interaction of the proton with the atomic nucleus, and are no surprise.

But the V-shaped track which forms just under a fifth of a millimetre downstream from the nuclear collision is more interesting. One of the tracks, labelled "a", is that of a particle with very high energy, thought to be something like a *pi*-meson or a proton, but track "b" is caused by an electron.

And the inference is that the gap between the nuclear interaction and the apex of the V-shaped track is spanned by a nuclear particle which has no electric charge. By adding up the energies of the tracks "a" and "b", it is possible to infer the energy of this novel particle, and thus its mass (from Einstein's equation $E=mc^2$).

The result is that the mass turns out at the equivalent of 1,250 million volts or thereabouts, from which it follows that the particle concerned is new.

Coal still in question

While the argument about British membership of the Common Market continues at a gentlemanly pace, British nationalised industries seem to be taking full advantage of the Community's rules on industrial development.

The National Coal Board has been doing especially well out of the arrangements within the European Coal and Steel Community that allow the coal industries in member nations to borrow money at cheap rates (now roughly 9 per cent) and has, since the beginning of 1973, borrowed £75m from Brussels. On top of that, it has also collected a total of £17.5m to be used for research and development.

All this is perfectly fair, of course, although yet another reminder that the negotiation of British withdrawal from the EEC will be not merely difficult but expensive.

What intrigues me about the Community's most recent loan of £75m to the National Coal Board, announced last week, is, however, the light it throws on the current

capital cost of increasing coal production in Britain. The loan represents half the cost of developments at 10 British collieries which, when completed three years from now, will increase British coal production by a total of 12 million tons a year.

Simple arithmetic shows that this is the equivalent of spending \$10,000 to create oil production capacity of one barrel of oil a day. This, as it happens, is even more expensive energy capacity than the most expensive oil production capacity in the North Sea, and nearly two thirds of the capital cost of installing nuclear power stations. But coal mining capacity differs from both oil production capacity and nuclear power stations in that the costs of production are relatively high.

All this is another way of saying that even in present circumstances, when every bit of energy seems worth having, there are serious doubts whether further development of British coalfields is worthwhile.

Oil slick spreads to backwaters

In April, it will be recalled, the meeting of oil consumers and oil producers, called by the French President to prepare for a full-scale international conference on oil broke up in failure after two weeks of wrangling in Paris. Scapatics like me (TES, April 18) were not surprised, believing that the price of oil cannot be determined by international conferences, however august, but only by the operation of market forces.

But the wrangling at Paris in April never got that far. Developing countries, led by Algeria, insisted that if there were to be an international conference on oil, it should also consider the prices of other raw materials and, in more general terms, what the developing countries have been saying for several months should be "the new world economic order".

In the event, the Americans said they would talk about oil and nothing else, with the result that the delegates to the preparatory meeting in Paris went home expecting that the international conference they and France had hoped for would never come to pass. By all accounts, the chief oil producers were mulling to themselves that the price of oil would have to be increased again in September when the period of the present freeze comes to an end. These are the reasons why Dr

Henry Kissinger's announcement last week that the United States is indeed prepared to take part in an international conference about the prices of raw materials of all kinds was startling to a degree not yet recognized by the newspapers. The intention is that the issue will be discussed with other industrialized nations in the next few weeks, and that the preparatory meeting abandoned in Paris should then be convened all over again.

The fine print shows that the United States has not accepted the view of the developing countries—or at least those rich in raw materials—that there must be a comprehensive discussion of all raw materials, but simply that different raw materials should be considered "case by case". What seems to have happened is that the United States has recognized that it has little to lose by abandoning its show of intransigence in Paris and everything to gain by an international conference in which it will be possible to demonstrate that the "new economic order" is a mirage that should not divert the developing countries from their true interests.

The issue is this. Developing countries supplying materials such as copper, bauxite or even coffee are understandably asking for some assurance that their income from such materials, frequently their chief source of foreign exchange, should be guaranteed against the

fluctuations of price that follow on fluctuations of demand in industrialized countries and also protected against inflation.

And recognizing the success with which OPEC has protected the incomes of the oil producers in the past few years, other developing countries have in mind a general increase of the prices paid for all kinds of raw materials.

The reasoning is, however, fallacious. If the price of copper increases, people are persuaded to use aluminium instead. If the price of bauxite is increased, the industrialized world concentrates on the extraction of aluminium from other ores. In other words, there is a danger that too formal an agreement on higher prices for raw materials might rob the developing world of income that it needs.

So the developing countries would be better advised to fight for the objectives that have sustained them for the past several years—the relaxation of tariffs and quota restrictions on the import into industrialized countries of goods manufactured in the developing world. It is a scandal that countries like ours have for so long denied the developing world a chance to earn its own living by means of exports.

And it is depressing that the current recession is unlikely to persuade the British Government to liberalize the import trade in textiles, for example.

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There are three methods of entry into the police service. As a cadet, between 16 and 18; as a police constable, from 18½; and through the Graduate Entry Scheme.

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For more information about life and career prospects in the police, please write to: Police Careers Officer, Home Office (Dept. A72), London SW1A 2AP.

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COURSES

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Those accepted on this course are normally seconded from their schools on full salary.

APPLICATIONS should be sent as soon as possible to
Admission (CG), Kingston upon Hull College of Education,
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CAMBRIDGE INSTITUTE OF EDUCATION Courses and Conferences September 1975

A Concept Learning Approach to the Teaching of Social Studies

A workshop course to be held at Wolfson Court, Gilton College, Cambridge from 25-27 September 1975 for teachers of Social Studies in Middle and Secondary Schools.

Dance and Gymnastics in the Middle Years of Schooling

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The Arts Curriculum Project

A follow-up conference to the Schools Council's Curriculum Study: The Arts and the Adolescent, directed by Malcolm Ross, which will take place at Saffron Walden College from 12-14 September 1975.

Further details about these courses are available from the Courses Office, Cambridge Institute of Education, Shaftesbury Road, Cambridge CB2 2BX. Telephone Cambridge (0223) 68831.

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Morocco

Inflation hits development plans

from John Gretton

RABAT Mohammed Bouamoud, Minister of Primary and Secondary Education, last week presented a confidential report to the government. Things being what they are here, to all intents and purposes that means the King, Hassan II.

The report, *L'Enseignement au Maroc: bilan, diplômes, perspectives*, summarizes achievements so far, and outlines plans up to and beyond the end of the present Five Year Plan in 1977.

In an exclusive interview, the minister told me: "Considering the means at our disposal, I am not at all dissatisfied—this despite the fact that the illiteracy rate in Morocco is still around two-thirds of the total population; and in the past two years, 1,000 primary school classes have been closed down because of the drift of the population towards the towns."

For the minister, the most important task is to replace the 6,000 French co-opted teachers by Moroccan teachers. In particular, M. Bouamoud expects that, one year after the end of the present Five Year Plan, in 1978, all the 4,000 teaching posts in the first four years of secondary school at present held by Frenchmen will have been Moroccanized.

To this end, the government is pressing ahead with the opening of 13 regional teaching colleges in the autumn. These will be in temporary accommodation, as the new buildings which will be financed by the World Bank, have not yet been put up. With the help of these colleges, the total number of trained Moroccan teachers should rise by 11,466 between now and 1978.

Since the closure of the technical schools after the 1965 riots, there is practically no technical education available for Moroccan students who are not able to make it to the *baccalauréat*—apart from low-level apprenticeship-type courses. Though Morocco suffers greatly from the lack of such medium-level skills, there are no plans at present to remedy this situation.

Similarly, M. Bouamoud clearly felt that by himself he was able to do very little about the high drop-out rate in Morocco, both from primary and secondary schools. In the countryside, where 80 per cent of the population still lives, he is on the need for "regional economic centres" both to keep the population there, and to give them an incentive for schooling. There were no signs, however, that that sort of investment was being considered by the government.

In fact, although M. Bouamoud insisted that all his programmes remained intact, despite the dramatic cost-cutting revisions necessitated by inflation, money for investment of all sorts is an increasing problem.

A large proportion of the profits from phosphate—Morocco is the biggest exporter in the world—are going to the *casse de compensation*, which is used to subsidize the cost of sugar, cooking oil and other essential foods.

There is little left to invest in employment and education, which M. Bouamoud insisted time and again, were the key linked problems of Morocco today.

Holland

Guidance services to be boosted

from Lynn George

AMSTERDAM Dr. Jos van Kemnade, Education Minister, is planning to expand and reappraise school guidance services. At the moment there are some 1,000 guidance counsellors, but the government is employing about 1,000 psychologists, special workers, remedial teachers and careers advisers.

To run the services costs, between £200m and £250m a year, the government provides around 25 per cent of the costs, and the remainder comes from local authorities. This year, the government gave £4.5m and in 1978 this is due to rise to £8.5m.

West Germany

Unions step up fight for shorter working week

by David Dungworth

The economic difficulties confronting the federal states, which largely control education, have caused the perennial squabble over teachers' working hours to flare up once again.

Pressure to hold back the inevitable rise in educational expenditure has not only limited the number of places available to new entrants to the profession (*TES*, May 16) but has also led to a move to increase the teaching loads of those already working.

The required number of teaching hours is laid down by each state ministry of education and varies both according to the *Land* concerned and the type of school. At present, the weekly average ranges from 28 hours for teachers in primary schools to 23 for grammar school staff.



Union leader Frister: variety of protest.

Top officials in the *Länder* education ministries are now proposing to establish a uniform pattern for the whole country under which staff at primary level (years one to four) would teach for 29 hours a week, those at secondary level I (years five to 10) for 27 hours and those at secondary level II (years 11 to 14) for 25 hours.

On the face of it, teachers will continue to enjoy a much shorter week than the 40 hours worked by state employees in other professions. Moreover, their teaching hours are normally confined to the period 8.30 am to 1.30 pm, leaving their afternoons free for other activities. Many, it is claimed, use this time for private coaching at rates currently reaching DM40 (about £7.50) an hour, little of which is declared for income tax purposes.

Outlook bleak for 'think-tank'

Although a final decision has yet to be taken, it now seems virtually certain that West Germany's educational think-tank, the Educational Council (*Bildungsrat*), will be wound up when its second five-year period comes to an end on July 14 (*TES*, April 18).

Baden-Württemberg and Bavaria had refused to renew the agreement continuing the council because they considered some of its more recent proposals to be far too radical.

They were particularly opposed to its support for comprehensive schools and its laws on pupil participation in school government.

They had therefore advocated that its functions should be taken over by *ad hoc* committees of experts which would be appointed as and when necessary to specific issues.

A compromise has been reached between the *Länder* governments and the federal government, which will see the council continue to exist but with a new organization which will be more limited in scope.

Discussions are now under way as to what type of council the Education Council will be. It has been entrusted to a committee composed of 12 members, five from the *Länder*, five from the federal government and two from the *Bildungsrat*.

Four batches of children to 13 years of age are to be selected for the project. The first batch, aged 10-13, will be selected in the autumn. The second batch, aged 7-10, will be selected in the winter. The third batch, aged 4-7, will be selected in the spring. The fourth batch, aged 1-4, will be selected in the summer.

France

Reform Bill gets qualified go-ahead

from William Farr

PARIS The government a blank cheque to carry through controversial measures. Among the many features of the proposed legislation which have disappeared is the plan to introduce compulsory schooling at the age of five instead of six. Nor will children be allowed to jump classes. The principle that pupils should move up according to their maturity and not according to age has thus been abandoned. Backward children will still be required to repeat classes—a system which M. Haby has often said should be avoided.

The real changes concern the organization of secondary education. At the first level, from 12 plus to the school leaving age at 16, all children will attend the same type of secondary education college (*CEG*). They will all study the same basic subjects. In the last two years children will be able to attend some pre-professional or pre-apprenticeship classes while still continuing to follow the basic common courses.

Those who stay on after 16 will be able to go to one of two types of lycée. At the general and technological lycées they will spend two to three years working for the *baccalauréat* (and possible access to the universities). At the professional education lycées students will spend two years to obtain a certificate of professional competence.

So general is the Bill, on the other hand, that it gives M. Haby become the compass case for a change. The study should be allowed for their own work, an average of 10 hours a week.

The teacher's situation, therefore, the Bill excludes teachers from the week introduced last year to public service employees states except *Batellerie* was an additional part of the *Länder* protest.

Led by the *Generalbund der Deutschen Wissenschaftler und Wissenschaftlerinnen* and the *Deutscher Gewerkschaftsbund*, the organizations are conducting a campaign against the Bill, which they consider to be irresponsible on the profession.

The conference of *Länder* education ministers has concluded in favour of a new busing plan to end school segregation. The new plan is on a wider scale than the one introduced in 1974, which caused a year of riots and violence. Judge Garrity has also ruled that two Boston high schools must be temporarily closed to prevent further racial clashes.

Under the new plan, 21,000 children will be bused to schools outside their home neighbourhoods. Many of them will be younger than the pupils bused under the old plan. Pupils will be bused throughout the city, except in the largely Italian East Boston area, which is isolated from the rest of the city.

The plan has met with strong opposition from groups opposed to busing, including Boston's School Committee. Last June Judge Garrity ruled that the committee had unlawfully operated a segregated school system. School committee members believe that the new plan will bring continued violence.

Meanwhile, the Supreme Court has declined to review Judge Garrity's 1972 ruling that Boston's school system is unconstitutionally segregated. It was this finding which led to last year's temporary busing.

'Magnets' aim for integration

Forty-three Houston secondary schools are to be developed as "magnet" schools as a means of promoting school integration. A "magnet" school is one offering special courses, not available in ordinary secondary school programmes, likely to attract pupils from all racial and ethnic backgrounds.

Among schools requesting magnet programmes first priority will be given to one-race schools. All schools chosen as magnets will have available space for students transferring into them.

Pupils in Houston are normally bused to attend schools within their attendance zones, but this will not apply to pupils choosing to attend magnet schools. No student qualified for a particular magnet school will be denied admission unless the racial goals for the programme have been filled or the school has been filled with other basic skills.

All programmes in the magnet schools will have a pupil-teacher ratio of 20:1, the cost of the programme, including transport costs and staff development, will be \$10,335.78.

knowledge and aptitude for one or a group of trades. The certificate could also give access to higher level studies at university or university institute of technology.

Most surprising in the new Bill is the omission of any reference to the *baccalauréat* and its relation to university entry and to the recruitment and training of teachers.

Both questions have been the subject of passionate controversy for years and were dealt with in the original proposals. They are certainly of as much importance as the participation of parents in the school community—to which four articles of the Bill are devoted.

However, the *baccalauréat* and teacher training also come under the auspices of M. Jean-Pierre Solon, Secretary of State for Universities, and it may be that he will be making separate announcements concerning them.

No matter how quickly the Bill is passed the first steps in implementing it cannot be taken until the beginning of the academic year 1977. This means that no pupils who are today in the last two years of the first cycle or in the second cycle of secondary education will be affected by it. If new arrangements are made for the *baccalauréat* they will only come into effect in June, 1980.

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COURSES

Bishop Lonsdale College, Derby

COURSES IN MATHEMATICS

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The course runs from Monday, 22nd September, 1975, to 12th December, 1975.

This course will also be available in Summer 1976, 26th April to 9th July, and Autumn 1976, 20th September to 10th December.

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Applications are invited from graduates in Mathematics or allied subjects for a one-year course leading to the Post-Graduate Certificate in Education of the University of Nottingham. Graduates will be prepared as specialist teachers of MATHEMATICS in Middle and Secondary Schools, and special attention is given to the development of COMPUTER EDUCATION.

Refining Courses

Applications are invited from graduates or from others with good qualifications who have had experience in industry or commerce, and who wish to change careers, for one-year courses leading to either the Post-Graduate Certificate in Education or to the University Certificate of the University of Nottingham. Students will be prepared as specialist teachers of MATHEMATICS in Middle and Secondary Schools, with special reference to the development of COMPUTER EDUCATION.

Both these courses are from September, 1975, to June, 1976. Both will also be available in the following session, from September, 1976, to June, 1977.

Applications for all these courses can be accepted immediately. Further particulars may be obtained from the Registrar, Bishop Lonsdale College, Micklegate, Derby DE3 5GX (Telephone 51911), to whom applications should be submitted.

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There are good opportunities for observation and participation in the College Nursery School and other local schools. Tutorial help will be given through discussion seminars and assignments in a chosen area of study. Details of the course and forms of application can be obtained from—

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Brochures and enrolment forms available from:
The Summer School Secretary,
Crews and Alsager College of Higher Education, Alsager
ST7 2HL, Cheshire.

South Africa

'Free for all' is target

from Louis Hotz

JOHANNESBURG Free, compulsory education for all Black children remains the government's ultimate aim, according to the Ministry of Bantu Education.

There are now some 3,600,000 African children at school, about 20 per cent of the total African population. Another 1.5m would be added if free, compulsory education were introduced.

About 57,000 more teachers would be required and the additional cost would be R77 million (£30m) in 1976, and R194 million (£130m) for buildings.

LETTERS

Straight talk on the 'III'

Hard days for dons

K. R. HERLINGSHAW,
46 Tramore Walk,
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Sport

Golf trophy for Perth Academy

by Stanley Levenson

The high quality of some top schoolboy golfers was amply illustrated during the international final of the Aer Lingus team competition at Ballybunion, co. Kerry, which was won by Perth Academy in an exciting finish.

Ballybunion, alongside the Atlantic, is one of the most difficult courses in Britain according to Bernard Hunt, captain of the British Isles Ryder Cup team. Yet the boys, maximum age 17, were often only a few strokes over par (71), and in one case equal to it.

It was Kevin Weeks, of Brockenhurst College, a sixth-form college in Hampshire, who achieved par figures in his second round to win the individual prize. Kevin, 17 year old, 6ft 5in tall and weighing 15st, played despite receiving treatment for an ulcerated throat. His rival for the trophy, Perth's Alan Wilson, took a seven on the last hole after playing some fine golf and had an aggregate of 152, three strokes more than Weeks.

When Perth led Brockenhurst by 14 strokes after the first 18 holes it seemed all over but the shouting. Then came Weeks' storming round and some good scores by his teammates. But it wasn't good enough. Eric Lindsay, Scotland's number three, two-putted on the final green but his side left his school with victory by two points.

Ysgol John Bright, Llandudno, representing Wales, and Belvedere College, Dublin, winners of the all-

Ireland preliminary group, were never in contention, although Belvedere's captain, John Mahony, 15, had his moment of glory on the 18th the second time round.

The hole, on a plateau guarded by an immense bunker, cannot be seen from the valley of the fairway. After his tee shot, John stroked the ball beautifully up to the green where it pitched and rolled into the hole for an eagle two to the cheers of the watchers. The wide grin on his face as he came in told all.

The four schools were the survivors of a competition which began in March with 570 entries and 2,280 boy golfers. When the first Aer Lingus competition was held in 1972 only 112 schools took part. Even now, there is room for expansion; some 1,600 schools are involved in all the activities of the Golf Foundation, who arrange the championships in cooperation with the sponsor.

The Ballybunion results, counting the best three of four cards in each round:

Perth Academy 467, Alan Wilson 72-80, David Murchie 75-87, Eric Lindsay 78-75, Donald McLeod 83-97.

Brockenhurst College 469, Kevin Weeks 78-71, Keith Whaitson 83-80, Brian Mudge 78-79, Paul Mellor 86-82, Belvedere College 479, John Mahony 80-83, David Conway 78-78, George Henry 84-76, Ian O'Herrilly 88-87.

Ysgol John Bright 489, David Webb 78-80, Keith Murray 82-85, David Hughes 82-81, David Jones, 91-89.



Top golfer: Kevin Weeks (Brockenhurst College) in action.

Table tennis title goes to London

Revinder Schmbi, of East Comprehensives School, London, won the postgraduate boys' table tennis title last week. He beat Meyer School, Manchester City School 2-1, to become the school champion.

The match had been scheduled for last week but a power failure at the Sports Centre, Stoke, forced it to be postponed. The English Schools Table Tennis Association had been played.

At Stoke, the senior title was finished in poor light. Karen Rogers of the event, Karen (Collegiate) School, Leicester, and an English senior player, Mandy Mellor (Hemley School, Chesterfield) 2-1. Mandy was third last.

The girls' under-16 final, repeat of the junior final, was finished in poor light. Karen Rogers of the event, Karen (Collegiate) School, Leicester, and an English senior player, Mandy Mellor (Hemley School, Chesterfield) 2-1. Mandy was third last.

The English Schools Table Tennis Association has secretary Mr John Arnold, Dal Endowed Middle School, field, who was elected to annual meeting just before championships.

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26/33

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A question of teamwork

P. E. Daunt puts forward some ideas about cooperation in comprehensive schools.



Bill Sanderson

In education, the word "team" has a fascinating history. For many members of several generations the word has had harmful associations, bringing with it memories of compulsory discomfort and, worse still, of the arrogance of the athleticists in their heyday. The use of the word responded to the reality: it was only in team-games that forms of cooperation were deliberately experienced.

The general rule was absolute that any cooperation between pupils over work was a form of cheating, since the whole formal effort was of course directed to the ultimate test of each individual in isolation. The idea that teachers should cooperate over their classroom work except in the most vestigial ways was quite unknown.

Of course this dismissal of cooperative enterprise to the games-playing fringes of academic life resulted from the domination of the academic life itself by the spirit of competition. Competition, and allegiance to the principle that the education of all children is held to be intrinsically of equal value, are in total opposition, since the active encouragement of competition depends on the award of higher praise to those who are comparatively successful.

From the comprehensive school the whole apparatus of published marks, ceremonial prize giving and the parade of the successful at speech days must be eliminated, for the simple reason that they distort what is of genuine value in the achievement of children and the work of the teachers.

This does not mean that there will be no competitive spirit between children in their work, no satisfaction in perceiving that one does better than another. I am referring only to what the school organizes, promotes and encourages. It is no help to try to make a clear distinction between achievement and effort and retain competition and the public reward of merit for effort alone, on the grounds that this is less elitist and more ethical, and so in some general way more consistent with comprehensive principles. The notion that children are more morally committed for their effort than for their achievement is largely an illusion, and the application of it leads to endless absurdities.

Yet the loss of competition as an organized motivator in the school is a serious matter for teachers. It is not just that competing children support hard work from individual children; in each class and in the school as a whole the system of rewarding successful children into an alliance which is a powerful support of general defiance, conformity, and therefore "good" (or "kind"). Except in classes or schools of low in the pecking order that almost all hope of recognized success is extinguished, this alliance is likely to be irresistibly strong. So it is that in junior schools the public

display of merit star boards can survive long after it is in patent conflict with the educational principles to which the school is devoted. The situation is not improved if a mere gesture towards cooperation is made, children competing for "merits" not, or not exclusively, for themselves but for houses or other ceremonial groups: the element of cooperation is spurious since typically the achievements for which the rewards are given have not involved one single cooperative act.

The elimination of competition from the organized modes of the school will leave a gap in motivation which must be filled if there is not to be a severe loss of purpose. Cooperation is the only alternative motivator, and, though this is by no means the only reason for adopting it as a mode, it would be a sufficient one.

Yet the idea of cooperation is full of dangers. It is, first, an easy kind of word to use in a facile way without meaning much at all; it is an idea about which it is fairly easy to be complacent. Since cooperation is a softer word than its opponent, competition, it is easy to suppose that it implies tranquility and freedom from conflict.

This side of paradise, however, the opposite is the truth: freedom from conflict is invariably a sign either of the suppression which goes with autocracy or the repression which comes from inertia and hopelessness. Active cooperation as a deliberate mode cannot depend on the talents of naturally cooperative people or the chance of easy relationships between personalities; it will therefore always tend to be abrasive, and involve conflict as one of its consequences.

Moreover, the word, like its collateral "collaboration", has been widely misconstrued. Traditionally it has been taken to mean a simple one who refuses to conform to the teachers lay down the rules and the children are required to cooperate with the rules. In theory it may be easy to catch up with the discipline of the school, but in practice the function of cooperation (or non-cooperation) is only ever attributed to the underdog.

We must therefore distinguish firmly between passive cooperation, which is the hallmark of an autocratic system, and active cooperation, which is a fundamental mode of an equal-value system. The characteristics of the first will be a widespread of peer support, a suppression of general defiance, conformity, and therefore "good" (or "kind"). Except in classes or schools of low in the pecking order that almost all hope of recognized success is extinguished, this alliance is likely to be irresistibly strong. So it is that in junior schools the public

will enable success throughout the school, failure here ensures failure everywhere. Three aspects of cooperation in the classroom complete a cooperative system by relating children to children in group-work, teachers to teachers in team teaching, and teachers to children in an opening up of the teacher's role from the purely directive and instructional mould in which it has been traditionally cast.

We need to pay credit to the pre-eminent contribution which has been made to advance the cooperative aspects in the curriculum by art, music, drama and physical education, and the need therefore to stress the claims of these activities to resources of time and facility. Educational gymnastics is a direct translation of the equal-value principle into pedagogy. What therefore is wrong with Bantock's view of these activities is not that it points to their special value in the education of children who may experience special difficulties of literacy and numeracy, but that it fails to acknowledge their great importance in the education of other children too.

Job descriptions of teachers' posts are increasingly in fashion, with the new emphasis on management structures in schools, but they tend to overstate the importance of "upwards" accountability. Comprehensive schools which hope to operate according to the equal-value principle must make sure to include in their job descriptions clear references to the extent and ways in which applicants will be expected to cooperate with colleagues and conduct or develop cooperative activity within the systems for which they will be responsible. This implies a new emphasis on developing the skills of cooperation, both in full-time pre-service training and as part of the brief held in schools by professional tutors.

Development of these skills will help teachers to cooperate outside the school as well as within. The necessary enlargement of the teacher's pastoral role is increasingly bringing teachers at all levels into direct contact with others of the social services, and this relationship brings in light all the rigours of cooperation across professional boundaries. The teacher as innovator will also have to work alongside agencies of curriculum development.

There will also be the extension of the teachers' relationships with their outside the school. If the school wants any form of major development in relation to the community, at Thomas Bennett, a working party of one governor, eight parents, two teachers and two pupils succeeded in producing a report on school and community which has proved a reliable framework for a wide range of

community developments. The working party made sure to lay down its aims, its high-level objectives, and two interlocking sets of policies deriving from these.

From this report came the establishment of a Thomas Bennett Association Committee, which is chaired by a governor and responsible to the governors; its members represent all the groups engaged in community activities, and it is responsible for controlling the finance and policy of the whole endeavour. It is certain that these proposals would not have prospered if there had not already been a strong tradition of cooperation between the school and its governors, 10 out of 12 of whom knew the school well and are actively involved in its life, three of them being parents of children in the school.

Continuity of chairmanship has ensured that it is those governors who care about the school most who stay on the board longest, and the vagaries of politics have not interfered with this principle. I can think of no other thing more important than this for establishing a foundation on which cooperation between school and community can be built.

When discussing competition I mentioned its importance as a prop of orthodox "good discipline". The discipline of a comprehensive school will be markedly different and unorthodox. Since cooperation depends on candour and a reasonable freedom of expression, these qualities, so easily suppressed in hierarchical and elaborately programmed institutions, must be cultivated and protected. The traditional rituals of deference and petty pomposities of rank can only extinguish the healthy growth of these necessary freedoms—it is, after all, what they are for.

It is necessary to stress the need for a purposeful intent to create in the school a distinctly informal style, supported by the head's example as well as precept. Some of the results of this will be uncomfortable and abrasive, causing scandal; lips will be bitten, noses snarled, and the school's esteem will sometimes come under fire.

The question of discipline is important and problematic; but a genuinely comprehensive school must have a characteristic discipline, and its standards of achievement must not be judged by the entirely alien criteria of a discipline appropriate to a school operating in quite different principles.

The main spring of comprehensive discipline is the mode of cooperation. By establishing it as an essential mode we can ensure against abandonment of it when, as will often happen, its frustrations, conflicts and failures disorientate us.

P. E. Daunt was headmaster of Thomas Bennett School, Crawley, from 1965 to 1973 and is now a member of the Education Directorate of the Commission of the European Communities in Brussels. His book *Comprehensive Values*, from which this edited extract is taken, will be published on Monday by Heinemann Educational Books at £2.50.

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In brief

Closure protest

Lincolnshire County Council are to send a deputation of councillors and representatives of Stoke Rochford College to protest to Mr Reg Prentice, the Education Secretary, against the recommended closure of the college in 1978.

A million entrants

More than a million young people have entered for the Duke of Edinburgh's Award Scheme since it began in 1956, says the scheme's report for 1974.

Visitors from Finland

Twenty-three members of the Finnish Association of School Administrators arrived in Britain on Sunday to attend a British Council study tour during which they will look at methods of school administration, organization and schools' architecture.

Marathon read

The Rev. Bernard Moss, Pro-Cathedral, at the University of Keele, is to attempt to read aloud the whole of the New Testament in the University Chapel today as part of the university's contribution to Christian Aid Week.

Part-time MA (Ed)

Sussex University is introducing a three-year part-time course for teachers and other educators leading to an MA (Educ) degree. The first course will begin with a three-week summer school during late July and August.

Minority art

The Arts Council Community Relations Commission and the Gulbenkian Foundation are backing an inquiry headed by Professor A. G. Hines of Black College, into the state of black art and potential development of a new group of black artists in the United Kingdom. Preliminary findings will be published in a report expected later this year.

Skill at modelling

Sculptors John Wainwright and William Kinney are the first to compete in a modelling competition which is open to all school children in the United Kingdom. Preliminary judging will be based on submitted photographs which should reach the sponsoring company, Humberstone of Bathampton, Bath, by June 2. Details from Eric Sutton, an Association of Teachers' Centre, 10, Bedford Square, London.

Medical films

To encourage the use of films in medical education, the British Medical Association are to present gold, silver and bronze awards for outstanding medical films completed during the past two years. The closing date for submission of entry forms is August 30.

Poly degree

Graduates from a BSc(Hons) in Science and Education course which starts at Huddersfield Polytechnic in September will have qualified teacher status and will be competent to teach in middle and secondary schools.

Job for redundant

Redundant part-time teachers could do voluntary work with remedial and adult classes, says Mrs Hilma Flint in her annual report to the Richmond (London) Community Care Association, of which she is chairwoman.

Echoes of Waterloo

Two hitherto unknown watercolours by Denis Dighton of the Battle of Waterloo have been bought by the National Army Museum for 2,000 guineas. They show the two most critical phases of the battle, the Chateau de Hougomont and the French cavalry attack on British Infantry squares during the afternoon.

Historians' conference

Medieval and medieval revival architecture in East Kent will be the theme of the annual conference of the Society of Architectural Historians of Great Britain at the University of Kent from September 4-7.

Basic reading

Basic Reading Schemes, a bibliography by Anne Leighton Pearce, Editor in Education, Digby Stuart College Reading Centre, London, has been published at 5p by the National Book League.

Prizewinners

Three groups of Humberstone school pupils have won days out by rail and their schools have been awarded prize money as prizes for the Humberstone "As You See It" contest. The schools are Allerton County Junior School, Huddersfield, Humberstone Secondary School and Humberstone High School, Hull.

People

Mrs Heather Brigstocke, head of St Paul's Girls' School, London, has been elected to the Automobile Association executive committee.

Appointments Universities

Professor Edward Stamp, of the International Centre for Research in Accounting, University, to the new Dr Rank chair of accountancy.

Dr G. W. Fenton, senior lecturer in mental health, British Psychological Association, to the new chair of mental health, University, Belfast.

Mr R. J. Boston, of the University of Birmingham, to the new chair of journalism, University, London.

Professor S. R. B. Jones, of the University of Wales, to the new chair of Welsh literature, University, Cardiff.

Dr S. S. Davis, senior lecturer in pharmacy, to the new chair of pharmacy, University, London.

Schools

Mike Collier, head of St. John's School, London, to the new chair of St. John's School, London.

Mrs Margaret Kennedy, head of Teesdale Junior School, to the new chair of Teesdale Junior School, London.

Mr Raymond Black, head of St. Mary's School, London, to the new chair of St. Mary's School, London.

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Birth of a syllabus

by Michael Austin,
Director of Literacy and
Linguistic Studies,
and Kathleen Kimber,
Head of French,
Queen Mary's College,
Basingstoke

A favourable disposition of stars had much to do with the design of a new French A level syllabus. The college was new; our energy was ready for recycling; our dissatisfaction with the present syllabuses coincided in almost uncanny fashion; and we were confronted by a new kind of sixth-former straining uncomfortably at the leash of the existing examination.

Probably the two most useful skills for a language student are aural comprehension and speaking. However, little weight is given to these skills in the French syllabuses of examination boards and the conscientious teacher has little time left to develop them because of the requirements of the literature and prose papers. It became apparent that our students were almost unanimous in their dislike of the compulsory literary content of the books and that many of them were seriously handicapped by the nature of the prose. Their objections to the literature paper, which we shared unreservedly, were in no sense based on inability to enjoy French literature, but rather on the lack of relationship between the skills developed by the course and those tested in the examination.

Between the idea of sensitivity, originality and logical analysis and the reality of 45-minute memory tests fell the shadow of an expedient anachronism. The prose paper demanded an esoteric skill for which most students would have no use in their adult life, and tested it in a highly contrived, deliberately artificial way. To ban dictionaries and to impose a time limit on prose translation an inquisitorial examination for candidates who are verbally confident and syntactically agile. For those who are not it is a nightmare which is arguably unfair. To expect 18-year-olds to show proficiency in translating an awkwardly complicated piece from their own language into an alien one is to demand an expertise which is not required of professional translators who always work into their own tongue.

These objections would be serious if voiced by or on behalf of the traditional, university-bound sixth-former alone, but they have become even more crucial for the new sixth-former. It would be a mistake to think of a comprehensive sixth form as simply consisting of conventional, academic, two or three A-level candidates alongside a strain of less able, but ambitious, students who constitute the new sixth-former. It is clear that such assumptions about students' expectations are of dubious value. In particular, the belief that university represents the logical continuation for the brightest. An increasing proportion of such students look to polytechnics, teacher training and direct entry for their chosen careers. Evidence suggests that this is partly a reflection of dissatisfaction with what they see as the traditional content of university courses. It is also the result of their exposure to the thinking of those who do not automatically see university as the end of the road. The new sixth-former is more inclined to look for useful, life-related elements in a course of study, whether he is studying three A levels or only one.

Two further inadequacies of the existing syllabuses seemed self-evident: the lack of opportunities for students to pursue an individual interest; and any requirements for the student to display knowledge of France (unless such knowledge is interpreted as a textual knowledge of four books, one of which must be replaced by a prescribed topic).

It is significant that the traditional A level French syllabus was designed primarily for those who intended to continue their studies. In the new situation a course ought to be such that it would be as well as

encouraging more varied activities and skills which would be of immediate use to all who were confronted either professionally or socially with a situation requiring knowledge of French and France.

Once these concerns had been identified, the task of devising a new syllabus was not as difficult as we had anticipated. We agreed we should first design a course which met our criteria and then draw up an examination to provide certification. We were determined that our syllabus would not be any easier than the existing one; that it would afford practice in reading, writing, listening and speaking, with more emphasis on speaking than in the past; that it would demand an interest in France; that it would require some study in depth; that it would have a significant element of pupil-centred learning; and that it would develop transferable skills.

We began by discussing the kind of course which would meet these criteria in full. We agreed at once that as much as possible of every lesson should be conducted in French, so that it became a normal means of communication, even if imperfectly used, rather than an embellishment like a formal suit for special occasions. We agreed that the variety of material must include works of literature, newspaper articles, magazines, tape recordings, radio broadcasts, television and films, as well as textbooks.

It was when discussing, over many meetings over many weeks, how we could most profitably use the time, that we had to analyse and categorize our ideas most closely. We wanted to devise a course which would end of which our students would speak about France as intelligent laymen in business or social contexts. We were also determined that in the future we would not turn out any more candidates with good A level grades who did not know even approximately where Lyon was, to whom the Fifth Republic meant nothing, or who had never heard of *les cadres*.

Such generalized ignorance was not adequately offset, we thought, by the ability to quote accurately from *Briand* or expatiate on the character of *Colomba*. It was clear that this kind of knowledge would come from the same sources as similar information about one's own country—radio, television and the press. By listening to recordings from French radio, as well as the excellent BBC series such as *Voix de France*, *Horizons de France*, *Jeune France*, *France 1900*, *France 1950*, *France 1960*, *France 1970*, *France 1980*, *France 1990*, *France 2000*, *France 2010*, *France 2020*, *France 2030*, *France 2040*, *France 2050*, *France 2060*, *France 2070*, *France 2080*, *France 2090*, *France 2100*, *France 2110*, *France 2120*, *France 2130*, *France 2140*, *France 2150*, *France 2160*, *France 2170*, *France 2180*, *France 2190*, *France 2200*, *France 2210*, *France 2220*, *France 2230*, *France 2240*, *France 2250*, *France 2260*, *France 2270*, *France 2280*, *France 2290*, *France 2300*, *France 2310*, *France 2320*, *France 2330*, *France 2340*, *France 2350*, *France 2360*, *France 2370*, *France 2380*, *France 2390*, *France 2400*, *France 2410*, *France 2420*, *France 2430*, *France 2440*, *France 2450*, *France 2460*, *France 2470*, *France 2480*, *France 2490*, *France 2500*, 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All shapes and sizes

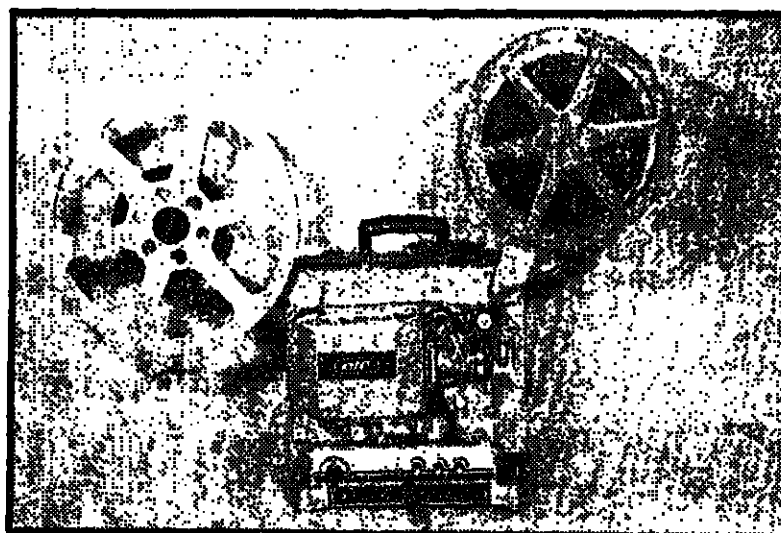
by A. H. Crocker

Elf Series R 16mm Sound Film Projectors. Supplied by Elf Audio Visual Limited, 836 Yeovil Road, Trading Estate, Slough, Berkshire. RT0 £423, RT1 £431, RT2 £445, RT3 £562, RM0 £376, RM1 £382, RM2 £395, RM3 £478, RST0, RST1, RST2, RST3, available to special order.

As can be seen from the list of prices, there is a wide range of Elf portable 16mm projectors to choose from. All have basically similar mechanisms for picture projection and sound amplifiers. The model which I have used is the RT1 which is the model best suited for general school use, both in the classroom and, when occasion demands, in the school hall.

All RM models have the film threaded manually, the RT models provide automatic threading and so do the RST ones, but with a special take-up spool they provide fully automatic spool-to-spool threading. The suffix 0 indicates a built-in loudspeaker, 2 indicates the facility to play back magnetic sound tracks and 3 indicates the ability both to record and play magnetic tracks. Models suffixed 1, in common with the 0 models, provide just the normal optical sound track playing facilities. Of course, those with magnetic track capabilities will also handle optical sound. The 1, 2 and 3 models have an extension-type loudspeaker in the removable cover to which is attached an 18-metre long lead.

The Elf series R projectors are developed from the previous S



The Elf RT1 projector.

series which became very popular with schools due to attractive prices, good performance, simple operation and serviceability. These new models are an improvement in all sorts of ways and since their introduction over a year ago have shown no signs of causing any reduction in the popularity of Elf 16mm equipment.

The projector gives a good light output, a feature which is essential for efficient use of 16mm educational films in the classroom. The EFL halogen lamp with its integral dichroic reflector is the same as that used in the previous series. The small size of the film in this 24-volt, 200-watt lamp with the reflector produces a well controlled beam of light which passes efficiently through the projection aperture and the 50mm f/1.3 objective lens which is supplied as standard.

A faster film pull down on this new series ensures a more efficient use of the light. This has enabled a slight reduction to be made in the lamp voltage without any significant

reduction of light output. This voltage reduction, however, is far kinder to lamps and so a longer life should result. Even greater extensions to lamp life are possible if the reduced lamp level setting on the rotary main control switch is taken advantage of. Light output reduction at the reduced level setting is definitely noticeable, but pictures should be sufficiently brilliant in most situations, and a lamp life of more than double the normal is possible.

In respect of picture quality there are shortcomings in resolution which are noticed by those sitting at the front when a picture contains a great amount of detail. For most purposes where screens not exceeding 1.5 metres or so in width are used, the quality is quite adequate. Sound quality is up to the standard that can be expected of 16mm film and the treble and bass tone controls provide a good range of adjustment. A sound power output of 20 watts is available from the amplifier. For public addresses a microphone socket is provided (31mm jack) and unlike the previous series this may be used without the projector motor running.

Serviceability is a generally well-known property of Elf projectors and this has been extended in the R series.

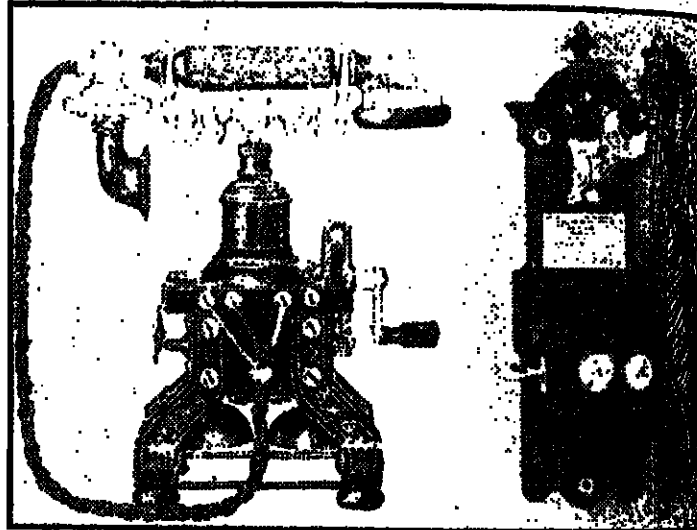
Wallcharts

A wallchart called *The Building of Glasgow 1100 to Today* has been produced for European Architectural Heritage Year and the Glasgow 800 celebrations by Barclay Walker Publications, Glasgow.

Right is the Stock Exchange House, an illustration from it. Charts are available flat or in a folder direct from Barclay Walker Publications, 193 St Vincent St, Glasgow G2 5QD at a charge of 75p. Bulk orders are available at 50p.



Below from 'The History of the Telephone Instrument', a chart which is available free of charge to schools, colleges and youth groups in this country and to the British Families Education Service, c/o The Education Service, Publicity Division, Post Office Telecommunications Headquarters, 2-12 Gresham St, London EC2V 7AG.



Computers in Education, the second world conference organized by the International Federation for Information Processing (IFIP) will take place in Marseilles from September 1 to 5.

The British Computer Society, whose education board are coordinating the registration of UK delegates, have set up a £2,000 scholarship fund to pay up to half the cost of 25 teachers from the secondary education sector.

The conference aims to bring

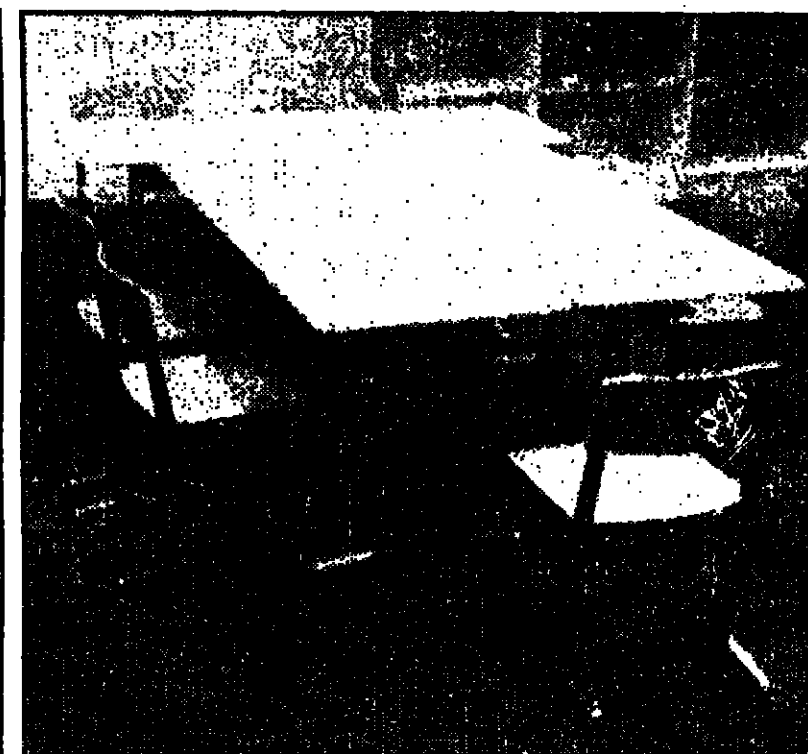
together people concerned with many possible roles of computers in education, including the applications of computer aid to the national difficulties of some countries. Four different sessions will be held: one for papers selected by the education committee; round table discussions and panel discussions and invited presentations by leading authors. Further information: The Computer Society, 25 N. Place, London W1.

Furniture and equipment review

National and international standards: compatibility and local requirements. By D. L. Medd—29 • Are resource centres an economic necessity? By Norman Beswick—31 • Booby traps for both the unwary and the cunning. Is furniture and equipment becoming more dangerous? Anna Sproule reports—32 • High density storage system. ILEA field trials lead to waste-saving and flexibility •



Left: tables that are dimensioned to group, that can be sat at all round, and are profiled to butt accurately to form large flat work surfaces are widely demanded in this country (Cumbrian Education Committee). Centre: Most school tables in Germany have storage at the work-place and are designed for two pupils to sit at one long side only. The dimensions, leg supports, storage, and edge profiles do not meet the needs of grouping (right).



Variety and standardization

D. L. Medd, directing architect, Department of Education and Science, writes on what is being done to close the gap between school furnishing requirements and economic demands

Nine million children need a lot of school furniture, and about half of them are in new places that have been provided over the last 30 years. How do designers know what to design and manufacturers what to make? Happily, manufacturers' catalogues no longer illustrate what sold yesterday rather than what education wanted today or is likely to want tomorrow. Then clerks and supplies officers knew more about the code numbers and the prices than about what teachers wanted, and the few interested designers flirted with special orders, some of which pointed the way ahead, but were not recognized as so doing by industry which had no effective connection with education or the teaching profession.

Influence of consortia

There are many influences that have led to the more healthy situation of today. These are the persistence of a few furniture designers who have specialized in their subject, the organization of many local education authorities into consortia for furniture design and supply, the work associated with British Stand-

ards for school furniture and the research work which they have promoted. The most immediate effect of these consortia has been to change the relationship between the customers and the manufacturer.

Designers in consortia having analysed and designed for the needs of their educational colleagues can present well organized and long-term orders to industry, whose manufacturing and sales efforts can then serve known needs rather than depend on an outdated catalogue or small special orders. Thus the design profession is being more effectively used, and industry is being given the opportunity of serving the increasing complex variety demanded by modern education. The forms of collaboration between I.E.S., consortia and industry are several and include the experience that can be offered by departments of central government (P.S.A. Supplies Division and Department of Education and Science).

The large programmes, together with the customer and manufacturing units, which are becoming both larger in size and smaller in number, could threaten individual initiative and experiment of the kind that was seen in the 1950s and early 1960s. Provided, this threat is always in mind, ways can be found to avoid present designs becoming a new routine, so that gradually and imperceptibly educational developments again widen the gap between what is needed and what the establishment provides.

The constant tussle in which designer and maker must engage is over the need for change and variety prompted by education; and the need for standardization, prompted by economics and manufacturing processes. Designers have their imagination stimulated by this conflict. Every year ways are found of assembling a relatively small range of manufactured components into different finished products that serve developing and changing education needs. The gradual evolution of school seating is a case in point. The way is being paved for the recent fascinating chal-

lenges. However, this versatile use of standard components depends on a discipline of dimension, colour and specification, on which subjects the British Standards Institution can have an important influence.

British Standards

There is little doubt that a British Standard is the most effective means by which the experience and needs of purchasers, users, designers and manufacturers can be made widely available and be fed into the mainstream of their activities. The experience of this country in the creation and use of national standards for school furniture far outstrips that of any other country. As this activity now has entered the international forum it may be useful to summarize our experience and note the changes in attitude.

The first standards were published in 1950 (BS/MOE 11-22). These 12 standards, each concerned with a particular type of furniture, had the laudable aim of ensuring that industry could meet users' needs when the school building programme was large and resources scarce. The lead given by these standards was both welcome and influential because experience was negligible. However, as experience in the 1950s accumulated, the basis of the standards was challenged.

First, standards specified full constructional details of specific designs, and no guidance was given on the distribution of the seven heights of chair and sitting height tables. It is interesting to note that the elaborately contoured profiles of chair seats and backs were specified in detail as such moulded shapes were considered, pasteurized, correct. However, three variants of increasing simplicity were offered to appease those who doubted the wisdom of attempting to fix a child's posture by the moulding of the seat. This standard established the once familiar 36in by 18in table sizes, and 20in by 17in and 40in by 17in table/desk sizes, as well as the 6in difference for storage purposes between knee



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Continued from previous page

have been in hiding for years. They are seen as participating in the expansion of industry, dinner parties, child rearing and the Great Exhibition. Phrases like "infant mortality", "speculation and investments", "vigour and enterprise of the age", "the average Englishman with a sense of optimism and a deeply rooted belief in progress" are used as explanations of the character of the middle class. The only part of this section where the pictures and words are complementary is the one on the Great Exhibition. Here the words are nearly all contemporary quotes genuinely descriptive rather than assertive.

It is difficult not to suspect that this set is meant to be used solely as a revision summary for CSE or O level. What is any student going to think when told that the same average Englishman "was not aware of the social and economic changes that were taking place around him"? Only 30 notetakers eager for examination neatness of thought could accept this sort of verbiage without incomprehension or bewilderment. The incomprehension must surely increase when faced with the average Englishman looking puzzled, or at least unware, they see a fairly immature and unchanged Victorian.

Genre paintings of the bourgeoisie at home provide at least reasonable illustration of themes in the third section of part one. But there are too few pictures of working-class people doing things other than being impoverished for the first part of part two. To start with there is some confusion as to who they are: "the 'slum dwellers'", "the working people", "the urban poor", "the labouring poor". The listener is merely told that they are a social problem.

The housing conditions of those who had recently arrived in towns were horrible and produce good

pictorial material, but the people themselves are all pathetic or faceless, apart from a collier and a rural family about to depart. There is no sign of the respectable artisan so frequently referred to in the fiction of the time. Since he was not a myth he should be mentioned in a survey, however sketchy. In general there is no sign of working-class activities; their appalling conditions are only relieved, if this set is to be believed, by philanthropy.

The section on ideas and thought suffers from the same attempt at comprehensiveness without an overall balance. A series of boarded heads is supposed to convey something of the thought their owners produced. Complicated ideas are reduced to descriptions incomprehensible to the student and often inaccurate. Anyone listening has to know the subject to understand the terms used and the relevance of the pictures.

The pictures, used in short batches, could be useful as illustrations, but, then the difference between this and a textbook is no longer apparent. The latter is certainly more flexible. The set reaches the height of absurdity in the next section. The Irish question is seen as four debates in the House of Lords. Imperialism is shown as Victoria and Diarmid in a cartoon, the Boer War and the map coloured red.

In sum, the set could be used for a particularly desperate revision class, preferably without the commentary. To reduce its value further the narrator's voice is dull standard BBC with a peculiar inflexion at the end of the sentences. Quotes are read as if we were still in the days before they had discovered there were working-class actors. Most students are well used to the combination of words and still pictures—they can see it every day on the television news—and can expect a more productive use of the technique. It is a pity to waste some excellent and useful pictures on rewriting the O level syllabus in 10 minutes. Buy it for the pictures, if you can afford to, but not for the rest.

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clearance and top surface, which was the cause of so much bad posture.

Any perfection intended by those responsible for chair profiles was immediately compromised by the table/desk with which they had to be used. In the early 1950s it was easy to see that such furniture was compromising the trends that new schools were being designed to serve. More educationally suitable furniture had to be designed and specially made in small quantities and at greater cost. In 1953 a new committee was set up at the British Standards Institution, with co-operating organizations that included the Ministries of Education and Health, the Furniture Development Council, School Furniture Manufacturers' Association and the London County Council.

Current research on the size of the school population was used, and new research was commissioned, whose results were tested

in extensive fitting trials in schools. This led initially to BS 2639:1955 (school dining tables and chairs). This was important because a scheme whereby dining and canteen furniture was separately supplied and financed through the Ministry of Works was ceasing. Thus dining and working area furniture could be, as they should, related or combined.

In 1959 BS 3030 parts one to five were published. These established the five heights that are still familiar, and the basic table plan size of 44in by 22in. Leg clearance zones were established, as was guidance on the distribution of furniture size to stature and age.

Initial resistance to such radical changes soon gave way to nationwide acceptance. This acceptance was due not only to the scientific basis on which the dimensions were based, but to the principle of standardizing the data for design rather than the designs themselves, as had been done in BS/MOE 11-

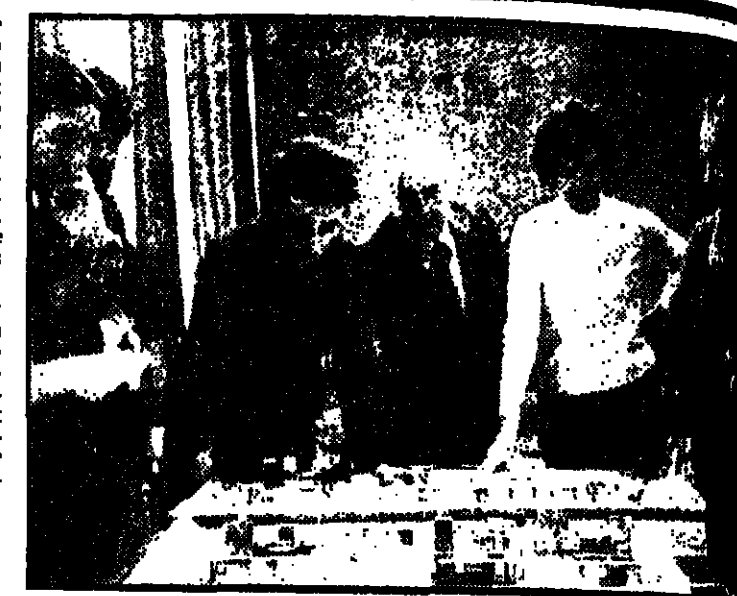
22. In this way standards were safeguarded rather than created, so that designers and manufacturers could seek ways of complying that best suited them. This principle encouraged many designs that offered new strong solutions and increased versatility for grouping in use. Sizes were specified in ergonomically based functional dimensions, strength in performance tests, and quality by the attributes of materials and workmanship.

The revision of BS 3030 part three (pupils' chairs and tables) in 1972 was prompted by the needs to provide a nursery size and to convert to metric units; and the advisability of lowering the largest chair to conform to office standards. This also permitted a wider stature range to be seated comfortably.

An international standard

In 1972 the range of standard heights was increased from five to six with the new nursery height tacked on rather than properly influencing the succeeding heights. Thus it is not as useful as it should be. At the same time the International Standards Organization decided to prepare standards for school furniture, the first being functional dimensions for tables and chairs. In spite of requests from other countries, and the United Kingdom's unparalleled experience of the design and use of standards, the BSI's commitments of international work prevented the United Kingdom from taking the secretariat, which is now being provided by Germany.

In spite of agreement that an international standard should offer a framework of incremental sizes from which nations can select for their own requirements (making a clear distinction between those dimensions that are essential for international compatibility and trading and those that may vary locally), there is always the danger that the customs of the leading country will dominate. There is less difficulty on heights, which are governed by anthropometry and ergonomics, than on plan sizes which are governed to a greater degree by educational practice and economic circumstances.



The use of 1/20 scale models (by PEL Ltd) is a valuable way of bringing teachers, advisers and designers together to study the most effective use of space and the composition of a furniture schedule to particular needs.

Experience and current research in the United Kingdom by the Furniture Industry Research Association, and by I.O.A. organizations, has led to a much clearer picture of the mobility and variety of working positions assumed by children of different ages in schools. This picture challenges the use of the same fitting criteria for all ages of children, and the content of furniture schedules that have been common. This work will certainly enable industry to meet the needs of school pupils more economically than by the seven heights proposed in 1950, and probably more so than the six heights now specified. An international standard must be designed to serve different educational practices and economic circumstances as effectively as it does different statures of children. The fact that to some movement is a misdemeanour and to others an educational necessity symbolizes the challenge and the opportunity in any event it is promoting thinking and work that will narrow the gap between the standards that the establishment design and the needs

and practices of those actually working in schools.

It is interesting to note that the 1950 standards specified details for 12 types of furniture that included designs for a variety of special subjects, as domestic subjects, science, geography, and so on. It has never been wrong to lay down models for types of furniture for subjects, particularly when furniture design has been towards the specialist furniture and the use of basic furniture types is designed to be educational. The trend both in education and design has been towards the specialist furniture and the use of basic furniture types is designed to be educational. The trend both in education and design has been towards the specialist furniture and the use of basic furniture types is designed to be educational.

It is likely, therefore, that standards for a comprehensive range of sitting and standing height surfaces with perhaps in addition some basic storage standards in the 1970s cover as wide a variety of educational activities as special subject standards did in 1950s.

Luxury or economic necessity?

NORMAN BESWICK on resource centres

A few years ago, a resource centre was an expensive luxury which only a few wealthy schools could afford—or so the story ran. Then schools which were certainly not wealthy began scheming and saving and found, not only that they could devise resource centres without an oil king's ransom, but that there were positive financial advantages. Nowadays, some schools and local authorities may even consider a resource centre is a measure of economy.

A school in Sheffield said: "As a first step, we thought let's at least make an index of all the equipment and resources we have at the present. And we found that sometimes three separate departments had a copy of the same film-strip—and had used it perhaps once each during the year. We could have bought other materials with the same money and upset nobody. When we coordinated things better we were quite surprised what we were able to do."

A school in the Midlands found that sets of slides and photographs held by the science departments, showing crystals and amoebae and plants and physical structures and even machinery were very exciting to the art department; who used them for visual stimuli and work on patterns and shapes. "With a little inter-departmental cooperation we were well away—and it saved money, too!"

And an impoverished but ambitious primary school head said: "These days you people call it a resource centre, but we've always done it. We couldn't afford to do anything else."

In the light of such statements and the present "no growth" situation it may therefore be necessary to think again about the way we deploy what we already have: resources, equipment, finances, use of personnel and available space. We may have to look at what we can share between schools, consider again the role of the teachers' centre, re-examine how support services such as the public library, the museums, the archive unit and even the council's reprographic equipment can integrate their offerings to better effect: not to mention re-thinking the community functions of polytechnics and universities. And such a review need not only be economically beneficial.

It is not just a question of avoiding unnecessary duplication, although this advantage is itself considerable. Even at a simple level, one item can often have more uses than we first imagined. A typical example is the so-called "teaching aid", which when it is not being used to adorn a lesson is all too often forgotten. We have allowed ourselves to be misled by language; a teaching aid can also be a learning aid, and for that matter, enjoyed in its own right. Made available (with necessary safeguards) in a library resource centre, it enriches the stock and service at no greater expense. A simple advance booking system makes it easily retrievable for its original purpose. Moreover, by adding it to the collection, we make possible inquiry that does not result in simple copying out of books. A person, using a pictorial

resource has to do his own verbalization—in other words he has to think.

This may occasionally spoil the surprise impact of a particular item in class use but few teachers of today's sophisticated pupils rely on audio-visual materials for gimmickry and stunts. They see it much better done on television.

We can make a simple budget stretch further by letting our pupils do several jobs, but this policy means we may have to do more thinking about organization. If pupils in inquiry learning are going to use audio-visual items, they will need viewing and listening equipment, and usually some supervisory staff. But, as resourceful heads report, neither of these requirements presents insuperable obstacles. Simple slide viewers (especially those using reflected light) are cheap and sturdy, and easily operated cassette players are not impossibly dear.

Surveys show that audio-visual equipment in most schools is used in class presentation only for a proportion of the school year, an under-use which can be minimized by making the simpler and more easily portable equipment available for coordinated use in the library resource centre at other times.

The addition of such equipment allows the teaching staff to plan more varied teaching and learning programmes. They can also involve the pupil in active participation which is so important a part of contemporary educational objectives. Much has been said and written about the necessary preparation for such activities, and in particular about the importance of teachers producing their own supporting materials. Some schools bemoan their inability to afford the reprographic equipment thought necessary. Often the careful walk round reveals a wealth of such equipment under-used in departmental cupboards, which (after the inevitable battles) could effectively be coordinated into a resources production unit for the entire school. Much can be achieved by a systematic (and sometimes fairly ruthless) scrutiny of existing resources. This may even include the typing and duplicating resources of the school office—and a hard look at the head's need for secretarial assistance.

The deputy head, or whoever has overall care of curriculum development, will find a coordinated production unit a powerful agent for the stimulation of staff thinking and innovation as teachers who are producing teaching units are creatively involved in course planning.

The coordinated equipment need not be elaborate, and will almost surely be present in the school already. It need not even be kept in one place, although there are advantages to a single-building school in one room which can be supervised by one ancillary. Also worth exploring is the equipment at local teachers' centres. Local authorities have found by locating production equipment and personnel at such places expensive work can be done more economically and first-class materials can be shared among several schools.

Meanwhile, the school library resource centre will be collecting many items which do not need equipment for their use but which greatly extend the scope of the collection: press cuttings, colour supplements, photographs, maps, models, specimens, artefacts and, of course, worksheets guiding their use. Any such department needs supervision, not simply because of damage, misuse, vandalism or theft, nor because some audio-visual items and equipment may be added to these materials, but once again because we want to maximize the effectiveness of the provision and make sure that everyone can find it.

Once again we come up against the under-use of resources. In a school library the few free periods, or when materials and equipment are locked up in a departmental or library cupboard because no one is around to handle them, is a no-growth situation. We begin again at the disposition of available personnel for the fuller use of available materials.

The minimum requirement is simply somebody there to keep an eye open. Some schools have managed extraordinarily well with parent volunteers, and others have found ways of employing senior pupils in a way that benefited them educationally as well as socially.

Some areas are more fortunate than others, and local moves and regulations about the use of ancillaries, and unpaid labour, vary. However, where schools are in a position to rework their use of ancillaries and their deployment of laboratory, secretarial and other assistants, surprisingly successful readjustments sometimes result. Some tasks can be performed in other settings. Off-air recording, for instance, can be combined with supervision of borrowing routines.

Professional staffing is needed to make the best educational use of resources. Some schools have supplemented the teacher-librarian's free periods by drafting other teachers for library resource centre supervision at other times. This at least brings teachers in contact with the pupils' point of use, but their insight and understanding varies.

Alternatively timetable adjustments can be made to bring the teacher-librarian into the resource centre more often (at Codsall Comprehensive School this became three-quarters of the week) and drafts can be drafted in to a few particularly suitable individuals. Ideally, of course, there would be a full-time school librarian in the area, but in "no growth" times this is not possible immediately. Some schools, however, who have adjusted ancillary quotas to provide themselves with a qualified librarian reported that the results in the quality of advice on curriculum materials alone amply repaid the outlay. (It should be remembered that limiting such appointments to teaching only diminishes the number of possible applicants who can afford to apply.)

Current professional training programmes will lead to a significant increase in the number of librarians who also have a recognized teaching qualification, which would help those looking for well-qualified but increasingly individualized education. These professionals must be effectively employed to make full use of their particular contribution.

Careful organization of resources is an essential feature of economic management; the haphazard production unit a powerful agent for the stimulation of staff thinking and innovation as teachers who are producing teaching units are creatively involved in course planning. The coordinated equipment need not be elaborate, and will almost surely be present in the school already. It need not even be kept in one place, although there are advantages to a single-building school in one room which can be supervised by one ancillary. Also worth exploring is the equipment at local teachers' centres. Local authorities have found by locating production equipment and personnel at such places expensive work can be done more economically and first-class materials can be shared among several schools.

A school which can demonstrate to its L.E.A. a thorough and systematic analysis of what it has, what it does, what it can plan to do within present constraints, and what it can hope to do with help, is more likely to get a sympathetic response. The basis will have been laid for more economic use of additional provision. Equally, the L.E.A. can (if they can spare the time from the other aspects of reorganization) encourage activities which lead both to economy and to educational effectiveness. The example set by the ILEA in fostering resources cooperation between educational establishments, within small local areas, is one that deserves closer study. The initiatives of the Wiltshire, Somerset and Gloucestershire county libraries in the provision of multi-media resource materials to schools could well be followed, particularly the Wiltshire pattern which involves cooperation with other interested agencies. Associated with this would be the proliferation of little "village" running about the countryside from the libraries, the museums, the archives, units and the teachers' centres.

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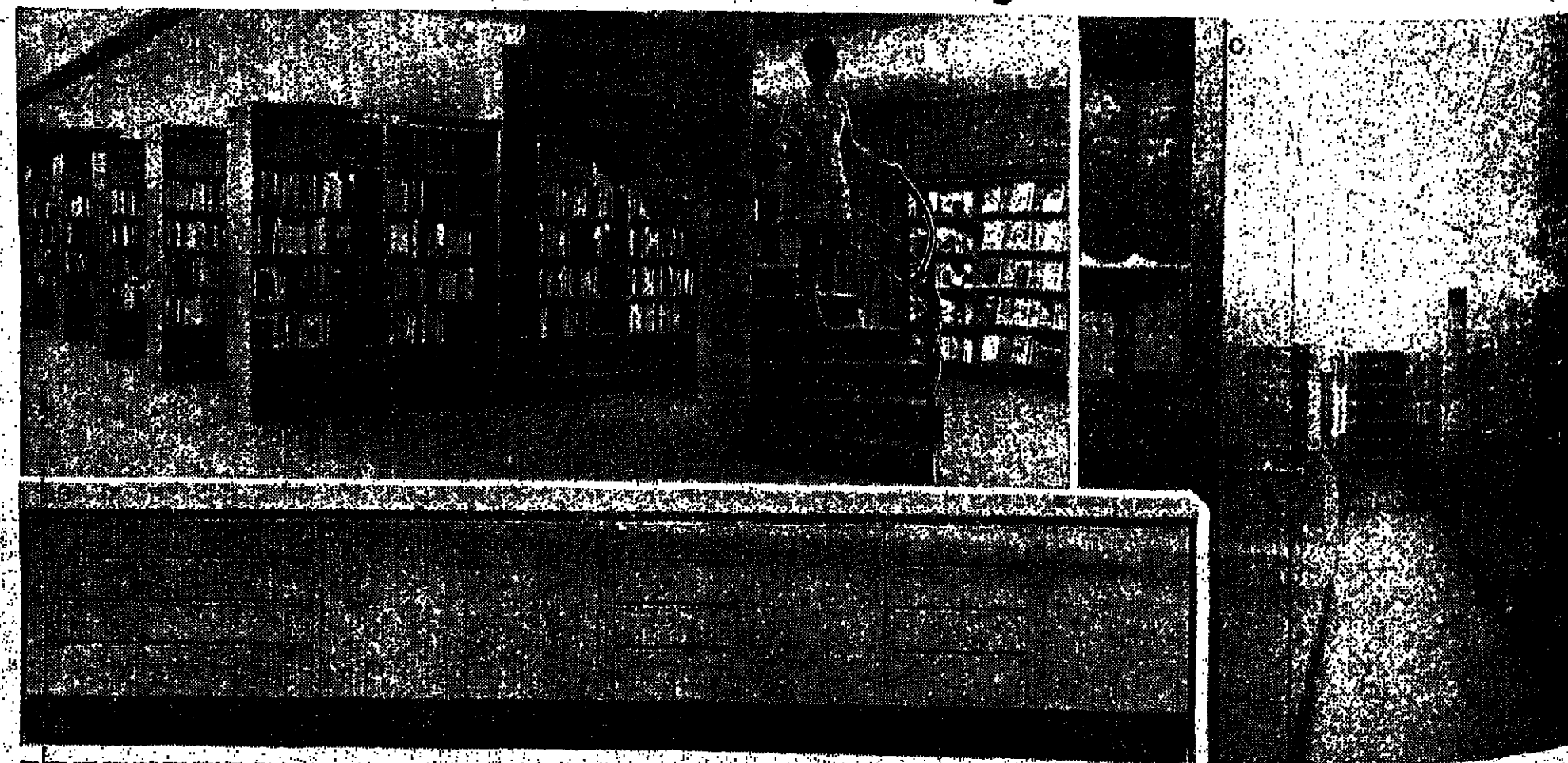
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LEEDS CITY COUNCIL

DEPARTMENT OF EDUCATION

Unless otherwise stated, applications, to be sent as soon as possible, should be addressed as follows:—
Primary, Middle, Special School posts and Headships and Deputy Headships of Secondary Schools to the Director of Education, Department of Education,
Calverley Street, Leeds LS1 3AE.

Other Secondary School posts to the Headteacher at the school concerned.
All applications should bear the names of two referees.

Application forms for Primary, Special and Middle School posts are obtainable from the Department of Education; other applications should be made by letter. Further information from headteachers. Please quote post number on all communications.

FIRST TEACHING APPOINTMENTS: PREFERRED POST SCHEME

Students already registered with the Authority who wish to be considered for any of the following posts should notify the Director of Education of their interest as soon as possible. Students not yet registered who wish to be considered for teaching posts with the Authority should write for details of the scheme as soon as possible.

SPECIAL SCHOOLS SCALE 2(S) POSTS

W.709 ARMLEY GRANGE SCHOOL (P.S.N.S.) 82 on roll
Armsley Grange Drive, Leeds LS12 3QH
Telephone: Leeds 6585
Headteacher: Mr. J. S. Jacques
Required for September, 1975, a teacher for a class of twelve to 15 year olds. An interest in Art would be an advantage. This post would be suitable for an experienced teacher wishing to take up a first appointment in a special school. A Scale 2(S) post is available for a suitable candidate. Please contact the headteacher for further information.

N.E.604 ROUNDBAY LODGE SCHOOL (SENIOR E.S.N.M.)
(No. on roll 180)
Humble Lane, Leeds LS8 2LJ Telephone Leeds 655457
Headteacher: Mr. E. Moulton, M.Ed.
Required for September, as a result of expansion, teacher for Games Science in well established purpose built special school. Opportunity for working with small groups of boys and girls. Enquiries from non-specialist teachers welcomed.

SCALE 1 POSTS PLUS SPECIAL SCHOOLS' ALLOWANCE

N.E.605 ROUNDBAY LODGE SCHOOL (SENIOR E.S.N.M.)
(No. on roll 180)
Humble Lane, Leeds LS8 2LJ Telephone Leeds 655457
Headteacher: Mr. E. Moulton, M.Ed.

TWO POSTS
Required for September, as a result of expansion, teachers for Remedial Teaching in basic subjects with small groups of senior pupils. Ability and experience in the use of Audio-Visual Aids an advantage. There is one full-time and one half-time vacancy.

PRIMARY SCHOOLS SCALE 3 POST

N.E.606 WETHERBY CROSSLEY STREET JUNIOR AND INFANT SCHOOL (40 children aged 5-11)
Crossley Street, Wetherby Telephone Wetherby 2227
Headteacher: Mr. P. W. Lofthouse
Required for September, as a result of expansion, experienced and enthusiastic teacher for a Scale 3 post in this Group 6 school for 5-11 year olds. This post gives the opportunity and expects to develop the child's intellectual and social skills. The teacher will be responsible for the school day and in the various extra-curricular activities including Boys' Games, Interest in Dance/Drama would be an advantage.

SCALE 2 POSTS

N.E.607 WIGTON MOOR INFANTS' SCHOOL
Barncliffe Crescent, Leeds LS17 8RU
Telephone Leeds 653541
Headteacher: Mrs. B. Morris
Required for September, experienced Infant Teacher, able to teach any age group from 4-7 years as required. Special responsibility: School displays and all creative work including movement and dance/drama.

W.709 LITTLEMOOR INFANTS' SCHOOL (285 on roll)
Valley Road, Pudsey, Leeds LS28 9SR
Telephone: Pudsey 1123
Headteacher: Mrs. A. Johnson
Required for September, 1975, a teacher to take charge of a vertically grouped class of 15 to 20 year olds and provide an integrated day working closely with other members of staff. The applicant is required to have a special interest in Music and be able to direct musical activities throughout the school.

N.E.608 ST. FRANCIS R.C. JUNIOR SCHOOL
(No. on roll 260)
St. Mary's Lane, Leeds LS9 7DP Telephone: Leeds 54130
Headteacher: Mrs. M. C. Carr
Required for September, 1975, experienced teacher for 7-8 year group. Ability to offer Music and a willingness to be involved in pastoral care of children. Essential. Application forms, available from the Director of Education, should be sent to Rev. Canon Patrick, St. Patrick's Presbytery, New Road, Leeds 7.

SCALE 1 POSTS

W.600 ABERFORD ROAD INFANT SCHOOL
(No. on roll 177)
Aberford Road, Leeds LS15 2UP
Telephone: Gt. Wharfedale 3000
Headteacher: Miss B. Mobley
Required for September, 1975, a teacher with a sound knowledge of Infant practice to work with class of five and six year old children. Ability to play the piano and an interest in creative activities an advantage.

N.E.611 CRISTERS DYKE PRIMARY SCHOOL
(No. on roll 620)
Starks Drive, Leeds LS14 5DY Telephone: Leeds 61927
Headteacher: Miss L. Moxley
Required for September, 1975, four teachers. Candidates should state the age range they wish to teach. Make an application.

N.E.602 SEACROFT GRANGE PRIMARY SCHOOL
(No. on roll 160)
Moorlands Lane, Leeds LS11 6QR Telephone: Leeds 605455
Headteacher: Mrs. K. F. Miller
Required for September, 1975, a teacher for group work throughout the school in reading and number work. This is a new purpose-built school.

N.E.608 ROSSON SPA INFANTS' SCHOOL (No. on roll 225)
Rushcliffe, Boston Spa, Wetherby
Telephone: Boston Spa 847711
Headteacher: Mrs. K. M. Voele
Required for September, a teacher with an interest in Modern Methods. Applications from college leavers welcomed.

N.E.609 POTTERNEWTON LANE PRIMARY SCHOOL
Pottersnewton Mount, Leeds LS17 2UR
Telephone: Leeds 620221
Headteacher: Mrs. J. Vickers
Required for September, for three terms, experienced teacher with an interest in Music and Mathematics. A willingness to participate in the school's leisure education programme essential. The appointment is for the afternoon.

SCALE 1 POST

W.710 FUDREY PRIMROSE HILL JUNIOR AND INFANT SCHOOL (288 on roll)
Teleford Hill, Stanningley, Leeds LS28 6AB
Telephone: Pudsey 74129
Headteacher: Mr. C. R. Brown
Required for September, a teacher for a class of 15 to 20 year old children. Applicants should have an interest in girls' games and swimming.

N.W.612 BECKFOT PRIMARY SCHOOL
Simulard Road, Leeds LS15 3UH
Telephone: Leeds 764225
Headteacher: Miss S. Halliwell
Required for September, 1975, teacher for one of three vertically grouped classes of 5-7 year olds, in an open plan annex.

MIDDLE SCHOOLS DEPUTY HEADSHIP (GROUP 5)

N.W.613 RE-ADVERTISEMENT
VICTORIA GATE MIDDLE SCHOOL
(formerly HAWKSWORTH MIDDLE SCHOOL)
Trafalgar Walk, Leeds LS2 3QE
Telephone: Leeds 541302
Headteacher: Mr. J. F. Reynolds
Required for September, 1975/January, 1976, Deputy Headteacher for this 12-14 Middle School. The ability to assist in the co-ordination of the curriculum would be an advantage. Applicants should state particular specialisms. S.P.A. allowances.

SCALE 3 POST

N.E.605 JOHN SMCARTON MIDDLE SCHOOL
(No. on roll 707)
Barncliffe Road, Leeds LS15 8TA Telephone: Leeds 602116
Headteacher: Mr. P. Dixon
Required for September, 1975, or January, 1976, a Year 10 teacher for this 14-16 year old group in this related curriculum school. The ability to assist in the co-ordination of the curriculum would be an advantage. Applicants should state particular specialisms. S.P.A. allowances.

SCALE 2 POSTS

W.711 INTAKE MIDDLE SCHOOL
(9-13 on roll)
Cane Hill Lane, Leeds LS13 1DD
Telephone: Pudsey 63463
Headteacher: Mr. N. Carr
Required for September, 1975, a teacher to be a member of this first year team in this developing four form out of five school. The teacher will be expected to move into new purpose-built accommodation, to take charge of the first year team. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

N.E.700 ALLERTON GRANGE MIDDLE SCHOOL
Talbot Avenue, Leeds LS17 6BF Telephone: Leeds 666250
Headteacher: Mr. A. R. Dunn
Required for September, 1975, a teacher to be a member of this first year team in this developing four form out of five school. The teacher will be expected to move into new purpose-built accommodation, to take charge of the first year team. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

TEMPORARY POST

An experienced teacher is required to complete a team of 12 teachers working with 12 children, 10-11 years, with low self-esteem. The appointment is for a year from September, 1975.

SCALE 1 POSTS

N.E.701 BRADWOOD MIDDLE SCHOOL
(No. on roll 160)
Wetherby Road, Leeds LS15 2LG Telephone: Leeds 653418
Headteacher: Miss J. B. Carr
Required for September, 1975, a teacher for the first year of this 11-14 year old group. Please state special interests.

SCALE 1 POSTS

N.E.702 LAWRENCE OAKES MIDDLE SCHOOL
(No. on roll 160)
Lawrence Road, Leeds LS15 2FG Telephone: Leeds 624493
Headteacher: Mr. C. D. Wilson
Required for September, 1975, Two Assistant Teachers, one for the first year and one for the 3rd Year Group. Applicants should state their special interests. The school is a new purpose-built school. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

SCALE 1 POSTS

N.E.605 BELLS LANE MIDDLE SCHOOL
(No. on roll 160)
Middlegate Road, Leeds LS15 2AG Telephone: Leeds 702322
Headteacher: Mr. P. L. Lister
Required for September, 1975, TWO Teachers for 11-14 year olds. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

JOHN SMCARTON MIDDLE SCHOOL (No. on roll 707)
Barncliffe Road, Leeds LS15 8TA Telephone: Leeds 602116
Headteacher: Mr. P. Dixon
Required for September, 1975, a teacher for a class of 15 to 20 year old children. Applicants should have an interest in girls' games and swimming.

SCALE 3 POSTS

CRONIN GREEN SCHOOL
Cross Green Lane, Leeds LS15 4HH
Telephone: Leeds 601904
Headteacher: Mr. O. Smith, B.A.
A mixed purpose-built comprehensive school for 1,200 pupils aged 11-16 years (12-14).
Required for September, 1975: HEAD OF HISTORY Department, which has established C.G.E. 'O' and 'A' and C.S.E. courses, which is involved in the School Council History Project (11-16) and which participates in integrated team work with the senior pupils.

ST. KEVIN'S (BOYS) R.C. SECONDARY SCHOOL
(No. on roll 554)
Barncliffe Road, Leeds LS15 8RQ Telephone: Leeds 717458
Headteacher: Mr. P. A. Kennedy
Required for September, 1975: HEAD OF ENGLISH Department. Applicants should have a wide experience, but especially in the co-ordination of the curriculum. The school is a new purpose-built school. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

SCALE 3, 2 or 1 POSTS

THE BENJAMIN GOULF HIGHER SCHOOL
(11-18 Comprehensive), Comprehensive, 620 on roll
Leinford Avenue, Leeds LS12 2RE
Telephone: Leeds 782277
Headteacher: Mr. J. R. Pate, A.M.B.I.M., P.R.G.
Required for September, 1975, a teacher of FRENCH Applicants should be able to teach the subject to all levels. The appointment will be on Scale 1, 2 or 3 according to experience. The school is a new purpose-built school. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

ST. JOHN BOSCO R.C. SECONDARY SCHOOL
Temple Lane, Leeds LS15 4JH Telephone: Leeds 717458
Headteacher: Mr. R. J. Gifford, L.S.A.M.
Required for September, 1975, a teacher of FRENCH Applicants should be able to teach the subject to all levels. The appointment will be on Scale 1, 2 or 3 according to experience. The school is a new purpose-built school. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

SCALE 2 POSTS

MATTHEW MURRAY HIGH SCHOOL
(No. on roll 1,200)
From Lane, Leeds LS15 6HJ Telephone: Leeds 710411
Headteacher: Mr. T. W. Kirk, D.S.E.
Required for September, 1975, a teacher to be responsible for the co-ordination of the curriculum. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

WILLIAM WALSINGHAM GIRLS' HIGH SCHOOL
(No. on roll 410)
New Road, Leeds LS10 4DP Telephone: Leeds 710411
Headteacher: Mr. J. Evans, B.A.
Required for September, 1975, a teacher with a special interest in the co-ordination of the curriculum. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

INTAKE HIGH SCHOOL
(11-18 Comprehensive), Comprehensive, 484 on roll
Calverley Lane, Leeds LS11 1AL Telephone: Pudsey 4841
Headteacher: Mr. C. W. Widdows, M.B.E.
Required for September, 1975, a teacher of MATHEMATICS. A Scale 2 post is available for a suitable candidate.

HUNNETT ST. JOSEPH'S R.C. SECONDARY SCHOOL
(No. on roll 211)
Rector Road, Leeds LS11 4PZ Telephone: Leeds 3640
Headteacher: Mr. W. K. Arnold
Required for September, 1975, a teacher to be responsible for the co-ordination of the curriculum. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

SCALE 1 POSTS

ST. FRANCIS R.C. SECONDARY SCHOOL
(No. on roll 200)
Manor Road, Leeds LS11 5PZ Telephone: Leeds 431445
Headteacher: Mrs. M. C. Carr
Required for September, 1975, a teacher to be responsible for the co-ordination of the curriculum. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

SCALE 1 OR 2 POSTS

LAWNSWOOD SCHOOL
(No. on roll 1,200)
Lawnswood, Leeds LS15 5AG Telephone: Leeds 702322
Headteacher: Mr. P. L. Lister
Required for September, 1975, a teacher to be responsible for the co-ordination of the curriculum. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

LEEDS CITY COUNCIL

DEPARTMENT OF EDUCATION

SCALE 1 OR 2 POSTS

ST. KEVIN'S (BOYS) R.C. SECONDARY SCHOOL
(No. on roll 554)
Barncliffe Road, Leeds LS15 8RQ Telephone: Leeds 717458
Headteacher: Mr. P. A. Kennedy
Required for September, 1975: Teacher for 'CRAF' STUDIES, with a bias towards Mechanical and Technical Drawing. Candidates should state other interests in this broad area, and contributions which they might make in extra-curricular activities. Scale 2 post available for a suitable candidate and experienced person.

SILVER ROYD HIGH SCHOOL
(13-18 girls' comprehensive, 550 on roll)
Swallow Crescent, Leeds LS12 4RH Telephone: Leeds 63074
Headteacher: Mrs. B. M. Draper
Required for September, 1975, a teacher to join the PHYSICAL EDUCATION DEPARTMENT. Although there will only be limited facilities for sports during the time that the school is accommodated in temporary buildings, there is good scope for anyone who is interested in outdoor games, swimming and games.

SCALE 1 POSTS

SILVER ROYD HIGH SCHOOL
(13-18 girls' comprehensive, 550 on roll)
Swallow Crescent, Leeds LS12 4RH Telephone: Leeds 63074
Headteacher: Mrs. B. M. Draper
Required for September, 1975, a teacher of ENGLISH. Required 'O' and 'A' levels are well established. There are good opportunities for a new entrant to the profession. The school is a new purpose-built school. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

ST. BENEDICT'S R.C. SECONDARY SCHOOL (Aided)
(11-16 years' co-educational, 650 on roll)
Leeds and Bradford Road, Leeds LS13 11J Telephone: Leeds 63074
Headteacher: Mr. J. Campbell, B.Sc.
Required for September, 1975, a teacher of ENGLISH. The school is a new purpose-built school. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

ST. KEVIN'S (BOYS) R.C. SECONDARY SCHOOL
(No. on roll 554)
Barncliffe Road, Leeds LS15 8RQ Telephone: Leeds 717458
Headteacher: Mr. P. A. Kennedy
Required for September, 1975, a teacher who is able to offer GENERAL SCIENCE in the Lower School with an emphasis on BIOLOGY.

SCALE 3, 2 or 1 POSTS

THE BENJAMIN GOULF HIGHER SCHOOL
(11-18 Comprehensive), Comprehensive, 620 on roll
Leinford Avenue, Leeds LS12 2RE Telephone: Leeds 782277
Headteacher: Mr. J. R. Pate, A.M.B.I.M., P.R.G.
Required for September, 1975, a teacher of ART, to work as a member of a team in the new purpose-built school. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

JOHN SMCARTON HIGH SCHOOL
(No. on roll 1,218)
Barncliffe Road, Leeds LS15 8TA Telephone: Leeds 644231
Headteacher: Mr. T. O. B. Howe, M.C.
Required for September, 1975, a teacher of HOME ECONOMICS. The school is a new purpose-built school. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

ST. KEVIN'S (BOYS) R.C. SECONDARY SCHOOL
(No. on roll 554)
Barncliffe Road, Leeds LS15 8RQ Telephone: Leeds 717458
Headteacher: Mr. P. A. Kennedy
Required for September, 1975: Teacher for ENGLISH AND HUMANITIES. Post available for newly-qualified teacher.

ALLERTON GRANGE HIGH SCHOOL
(1,240, 11-18 mixed)
Thibaut Avenue, Leeds LS17 6SF Telephone: Leeds 661032
Headteacher: Mr. D. W. Stacey
Required for September, 1975, a teacher for GEOGRAPHY throughout the school. An interest in field work and outdoor education would be an advantage. Applications from non-specialist teachers welcomed. Further particulars and forms from the headteacher immediately.

STAINBECK HIGH SCHOOL
Carr Manor Road, Leeds LS17 5DJ Telephone: Leeds 68815
Headteacher: Mr. A. A. Cameron, B.A.
Required for September, 1975, an experienced and suitably qualified graduate for HISTORY AND CIVIL SERVICE in the related curriculum. Applications from students with relevant experience who are in their graduate certificate year will be considered. The school has well-developed courses to 'A', 'O' and 'C.S.E.' levels in both subjects and has recently begun a Mode 3 C.S.E. programme in Community Studies.

ROSTON R.C. COMPREHENSIVE SCHOOL
(150 mixed) 11-18 years
Clifford Road, Boston Spa, Wetherby Telephone: Boston Spa 842915
Headteacher: Mr. J. B. Carr, M.A.
This is a new purpose-built school in a rural setting 12 miles from Leeds and within easy reach of York and Harrogate.
Required for September, 1975, a teacher for MATHEMATICS. An exciting opportunity to join a growing Department and to contribute to the development of the school. The school is a new purpose-built school. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

BENTON PARK GRAMMAR SCHOOL
(11-18 Comprehensive)
Harratone Road, Rawdon LE19 6DX Telephone: Leeds 661032
Headteacher: Mr. C. D. Elliott, D.S.E.
Required for September, 1975, a teacher for a new purpose-built school. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

AINEBOROUGH GRAMMAR SCHOOL
(11-18 Comprehensive)
New Barn, Yeadon LS19 7HP Telephone: Leeds 661032
Headteacher: Mr. J. W. Horn, M.A.
Required for September, 1975, a well-qualified graduate for a new purpose-built school. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

RAIN THORNTON HIGH SCHOOL
Farrar Lane, Leeds LS16 Telephone: Leeds 639411
Headteacher: Miss D. Lynn, B.A.
Required for September, 1975, a teacher to join the school. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

MIDDLE HEADSHIPS continued

STAFFORDSHIRE

WALSLEY MIDDLE SCHOOL

Quintessence Road, Walsley, near Wolverhampton (101 on roll)
An immediate advertisement.
Applications are invited for the post of HEADMASTER of this Middle School (11-18) to be established in September, 1975. The post is available for a suitable candidate and experienced person.
The school will be housed in the premises of the existing Walsley Junior School following appropriate extensions now under construction.
Application forms and further particulars obtainable from and returnable to the Chief Education Officer, Staffordshire, 11, The Quadrant, Stafford (stamped, addressed envelope) by 30 June, 1975.

Deputy Headships

Senior Masters/Mistresses

MERTON

(London Borough of)
EDUCATION DEPARTMENT
EDUCATION SERVICE
MERTON MIDDLE SCHOOL
Recreation Way, Mitcham CM4 1PJ
Headmaster: Mr. S. Jones
DEPUTY HEAD TEACHER required for this new purpose-built school. The teacher will be expected to have a special interest in the co-ordination of the curriculum. Applicants should state particular specialisms. S.P.A. allowances.

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Scale 2 post for suitable candidate.
In appropriate cases, subject to conditions of service, may be considered. Further particulars and forms from the Headmaster. Applicants should state particular specialisms. S.P.A. allowances.

Scale 1 Posts
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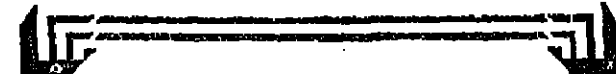
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TEACHING VACANCIES—SEPTEMBER, 1975

PRIMARY SCHOOLS

Rochdale, Alice Ingham Primary R.C. (5-11)

Hillfield Road, Rochdale. Tel. Rochdale 41560

INFANT TEACHER, Scale 1

One-year post due to temporary expansion of the school, with a possibility of retention in permanent capacity.

MIDDLE, SECONDARY AND HIGH SCHOOLS

Heywood, Siddal Moor High (11-18)

Newhouse Road, Heywood OL10 2NT.

Tel. Heywood 69436

TEACHER OF PHYSICS and some General Science, Scale 1

Millnow, Roch Valley High (11-18)

Cornfield Street, Millnow OL16 3DR.

Tel. Rochdale 42495

BOYS' PHYSICAL EDUCATION, Scale 1

Good facilities for Physical Education and Sports, including an indoor swimming pool. Please state which other subjects can be offered.

PHYSICS

Combined Science is taught in the first two years. Physics is taught to C.S.E., 'O' and 'A' levels.

Rochdale, Balderstone Upper (13-18)

Queen Victoria Street, Rochdale OL11 2HF

Tel. Rochdale 48049

FRENCH, Scale 1

Excellent facilities. Well established C.S.E., 'O' and 'A' level courses. Applications from teachers seeking a first appointment welcome.

Rochdale, Greenhill Upper (13-18)

Felling Road, Rochdale. Tel. Rochdale 31246

TEACHER OF ECONOMICS AND BRITISH GOVERNMENT

The work is wholly in the Sixth Form, taking the subject at both Ordinary and Advanced levels.

TEACHER OF BOYS' CRAFT SUBJECTS

preferably with building experience. Excellent facilities, five craft teams and outside working area.

TEACHER OF ENGLISH

To teach the subject throughout the school, preferably to Advanced level and to take responsibility for organization of Ordinary level work. Willingness to help with school work desirable. Scale 2 post available for suitable applicant.

Middleton, Cardinal Langley R.C.

Grammar (11-18)

Rochdale Road, Middleton, M24 2GL. Tel. 843 4009

TEACHER FOR ART, Scale 1

Ability to help with Religious Education an advantage.

Middleton, Durnford High (11-14)

Redley Street, Middleton, M24 3TS. Tel. 843 3845

TEACHER OF METALWORK, Scale 1

Please apply by letter to the Head Teacher, giving details of experience and training together with the names of two referees, as soon as possible. Further details may be obtained by telephoning the Head at the school.

Unless otherwise stated application forms and further details may be obtained from the Head Teacher at the school.

Requests for application forms should be accompanied by a foolscap stamped addressed envelope and all completed forms should be returned to the Head of the School as soon as possible, and in any event not later than 8th June, 1975.

Teaching Vacancies

SECONDARY AND MIDDLE SCHOOLS

Howarth Cross Middle School (10-13)

Albert Road, Rochdale OL16 2SU

Tel. Rochdale 31876

HEAD OF FRENCH DEPARTMENT

(Scale 2 at the present time).

Please apply by letter to the Head of the school, stating age, qualifications and experience together with the names and addresses of two referees as soon as possible. Further details may be obtained from the Head Teacher at the school by telephone.

Metropolitan Borough of Rochdale

MIDDLE Physical Education continued

NORTHAMPTONSHIRE

WILTON ROAD, WILTON, NORTHAMPTON NN16 9JH

Wilton Road, Wilton, Northampton NN16 9JH

Wilton Road, Wilton, Northampton NN16 9JH

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Other than by Subject Classification

Other Posts on Scale 2 and above

TECHNICAL STUDIES

Scale 1 Posts

Scale 1 Posts

Scale 1 Posts

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LONDON, E.1

ST. ANDREW'S SECONDARY SCHOOL
 1000 Bayview Ave., London E4 6JH
 Tel: 01-734 6100
 Headmaster: G. D. Barrett
 Sec. I: J. J. P. F. S.A.
 Mr. Peter Mitchell to teach in a
 self-study well-equipped library,
 studies department. Subjects will
 include COMMERCE, TYPEWRITING,
 and DRILL. Mr. Mitchell has
 a suitable first appointment,
 London address and assistance
 in travel where appropriate.
 Application form from Headmaster
 01-734 6100

Information Branch of
SELECTION COMMITTEE
OFFICE HIGH SCHOOL
OFFICE
1100 N. 13th St.
Minneapolis, Minn. 55403
Apply for September, 1970, or
later as possible
SCHOOL OF OFFICE SKILLS (ac-
cording to qualifications and ex-
perience)—strong department.
Including Sixth Form work.
Application forms and further in-
formation are available from the Head-
master of the school.

WILHELM'S WOODS SCHOOL
Windward Way, Lihouess, Wood
Lihouess, Hawaii 96761
Application \$25.00, plus Social Priority
allowance \$20.00 per annum.
Required for September. TEACHER
COMMISSIONED with ability to
teach TYPEWRITING and either
Human Script or Office Practice is
essential in this developing purpose
built (11 to 16) all-ability school
which by any standards, is lavishly
furnished and equipped.
Courses leading initially to C.S.E.
and eventually to Pitman and I.L.S.A.
Further particulars and applications

SUFFOLK
COUNTY COUNCIL
NEW MARKET TIPPEN SCHOOL
Required for September, 1978: married woman to teach OFFICE MANAGEMENT, TYPIWRITING, SOCIAL ECONOMICS and COMMERCE, a selection of these subjects in this comprehensive school of 1,400 pupils and girls aged 13 to 18. Salary: £10,000. Courses up to C.S.E. Only. A few books are already established in the department and the school is fully equipped.

Apply and write in the Head
Master, Newark High School
Young Road, Newark, Suffolk

TRAFFORD
Metropolitan Borough of
EDUCATION COMMISSION
SALE WEST READING
Highway Avenue, Salford M33 5JX
Tel: 0161 275 2266
COMMERCIAL, Scale 1.
SECOND COMMERCIAL TEACHER
For expanding department. Can-
didates should be able to offer in-
depth knowledge of English, Mathematics

Application form, available from the Head of the school, should be returned as soon as possible.

WEST SUSSEX
MID-SUSSEX AREA
FOREST CHRIST SCHOOL
 2001 Road, Horsham, Sussex RH12 5JH
 Required September, 1977:
TEACHER OF COMMERCIAL SUBJECTS. Typing, audio-typing, business studies, C.S.E., R.S.A. and **Plinian examinations.** Suite of specialist rooms.
 Application forms from Headmaster.

WIRRAL
(Metropolitan Borough of)
Oxley SENIOR COMPREHENSIVE
SCHOOL
Oxley Avenue, Lessowe, Merston
Wirral
Eight-form entry school for girls
(11-18)
Required for September 1975
TEACHER, full or part-time for 6
or more of the following subjects
to C.S.E. level. **CONSIDER**
TYPEWRITING, ENGLISH, SCIENCE
ART.
Applications by letter, giving re-
ferences, details and names and addresses of
three referees, to the Headmaster, Oxley
Senior Comprehensive School, Oxley Avenue,
Lessowe, Merston, Wirral, Merseyside, L35
9JH.

Domestic Subjects

Heads of Department

BUCKINGHAMSHIRE
WYCOMBE DIVISION
GREYKNOWOOD COUNTY
SECONDARY SCHOOL

(\$50 on Roll: mixed)
Headmaster V. C. Cooks
Required for September, 1974
HEAD of HOME ECONOMICS DE-
PARTMENT, new Scale 3, Branc-
wood, opened in 1971. Is a mixed
multi-racial school, with courses
in O level and C.S.E. A major
development will bring the school
930 on Roll.

Removal expenses up to £150 at
housing allowance pending removal
are payable in approved cases
for temporary advances and gratuities
available in certain circumstances.
Application forms and further de-
tails from Headmaster on receipt

CHANNEL ISLANDS
STATES OF JERSEY
EDUCATION COMMITTEE
ST. HELIEN (GIRLS) SCHOOL
(Roll 544) plus)
HEAD F NEEDLEWORK
DEPARTMENT
(Scale 2)

A good organizer and
NEEDLEWORKMAN is sought to
take charge of three sections

Letters of application should be sent as soon as possible to the Head Teacher, St. Heller Girls' School, Brighton Road, St. Heller, Jersey, C.I.

DERBYSHIRE
EDUCATION COMMITTEE
 ST. PAUL'S HIGHWAY S.C.O. SCHOOL
 Buntingford Road, Derby DE3 1JD
 Tel: 0532 611111
 (1) to 18 children, 950
 built in September, with 100 in
 built (new)

HEAD OF HOME ECONOMICS, Sec. 3 (pupil mountain), to take charge of the teaching of HOME ECONOMICS and NEWSWORTH to 8-10 within department on Occidental and Spanish Arts. Our new-named specialists: rooms will be available.

Applications should be made immediately by letter to the Registrar at the school, telephone numbers: Derby 57014 and 57015 or Peiper 4351 during business hours. Send full details of qualifications and experience in curriculum and address in reference.

100

BUCKINGHAMSHIRE
WYCOMBE DIVISION
THE JOHN HAMPDEN SCHOOL
Marlow Hill, High Wycombe

Applicants by letter headmaster at the school before the 15th of September. The school will be open throughout the school up to level and if possible to take of the school library. The post will be for students and staff. Applications will be considered from candidates a first appointment.

and housing allowance removal are payable in situations. Mortgage advance and interest are available in circumstances.

Applications by letter headmaster at the school before the 15th of September. The school will be open throughout the school up to level and if possible to take of the school library. The post will be for students and staff. Applications will be considered from candidates a first appointment.

CAMBRIDGESHIRE
CAMBRIDGE AREA
ST. HELENS SCHOOL
(Horsdown Road, Cambridge CB1 1JD)
ASSISTANT TEACHER (Sex
not stated) 1551 Required for Sep-
tember 1-1975. Experience preferred
with Junior I.C.s but some
initial teaching available.
Applications should be made
on application form, which can be
obtained, together with further
particulars, from the Headmaster,
St. Helen's, Comprehensive
Horsdown Road, Cambridge CB1 1JD.
Telephone: Cambridge 44660.

STATES OF JERSEY
EDUCATION COMMITTEE
ST. HELLER GRIMS
SCHOOL.
(Roll 930-plus)
Scale 2 ENGLISH vac
Candidates are sought
Can offer the teaching of
fish to C. 6. 11. 12
standard, and thorough
ranges of ability of a to
native intake.
Interchangeable supera
tion and removal exper
approved cases.

CHANNEL ISLANDS
Quarrying
THE LADIES' COLLEGE
(Direct (rent)
Inquired for September, 1961
high quality ENGLISH
two women interested
teaching at subject through
selective school to a
Burrum State, English
and a
Income Tax 20%. No V.A.
Apply with copies of tax

CRYDON
(London Borough of)
EDUCATION COMMITTEE
invite applications from
qualified and experienced
TEACHING CLERK HIGHER
Secondary School, Croydon, S.
Telephone: 01-881 1816
Head, Mr. C. P. J. FULFORD
Inclusive: September, 1973

The department in which the applicant desires to exercise his or her professional prospects for which the department offers good opportunity for advancement and gain experience in an experienced leader of the organization. Good and support within the organization will be provided to contribute to current program development.

Salary—New Scale 2. The salary scale for new hires is \$10,000 per year plus 10 percent for each year of service. Reasonable expenses will be reimbursed as needed.

Applications on forms from and returned to the

CROYDON
(London Borough of)
EDUCATION COMMITTEE
Invites applications from
qualified persons to be
considered for the post of
GIRLS
Stonefield Road, Old
Barnes, Croydon S.W. 20
Tel. 71-5101
Acting Head,
Mrs. J. A. Sheldermaine
Tenable, Secretary, 1978
Road, Croydon, SURREY
CR9 3JH. The English
Department is a large
established department.
The applicant would be

Salary, now Scale 3, with Area Allowance facilities also up to 100 per cent in appropriate circumstances. Reasonable expenses will be reimbursed on request.

Applications on forms from and returned to the chair at the above address.

AN OYDLE
(London Borough of Hammersmith & Fulham)

invited applications from
qualified and experienced
men for the position of
SAINTON MANOR HIGH
School, Old Compton
Barry Lane, 124
Telephone: DOWLAND 011
The school is a large
remains September, 1970
Required a well-qualified
person for the position of
school, ENGLISH through
school for an extensive
date able to assist with
library, a post above that
be the school.

The school is a modern
equipped in the 14 com-
prehensive high school
Barry Lane, 124
Old Compton, Ave.

and Maryland families are up to 100 per cent in circumstances. Irresponsible agencies - the FBI, the Veterans Administration, etc., have requested applications on forms sent and returned to the Federal Bureau above the usual rate.

DENVYSHIRE

EDUCATION COMMITTEE

HOOVER WELLS

SCHOOL

For September, 1961, the School Scale 2 for suitable local applications considered by the committee.

Letters of application

se, evidence, is the Brennan
School.

ROCHESTER GRAMMAR SCHOOL
1700 Glen
Arlington Road Rochester
311 S.W.
Rochester, N.Y.
GRADUATE is shown in the

Application forms may be obtained from Boys' School, Mill Road, Boston.

Applications to the Acting Head

...and developer, and also perhaps an

Education: Bachelor of Science in Biology, University of California, San Diego, 1964.

1990

1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 26

the 1990s, the number of people in the world who are undernourished has declined from 760 million to 600 million. The number of people who are malnourished has declined from 1.1 billion to 800 million. The number of people who are obese has increased from 100 million to 300 million. The number of people who are overweight has increased from 100 million to 300 million. The number of people who are obese and overweight has increased from 100 million to 300 million. The number of people who are obese and overweight has increased from 100 million to 300 million.

...and the other is the fact that the system is not self-correcting.

...and the fact that the *Journal* is not a journal of the American Psychological Association, but of the American Psychological Society, which is a more specialized organization.

the 1990s, the number of people in the world who are under 15 years of age is expected to increase from 1.1 billion to 1.5 billion. The number of people aged 65 and over is expected to increase from 200 million to 400 million. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion.

Department in this comprehensive school covering the age range 11-19. The school is at present 1,200 pupils on roll including 178 in the Sixth Form.

Applicants should have appropriate qualifications in Science, Geography and English. The examination work will be available in three subjects. Willingness to study with a view to Honours or History would be an advantage.

Applicants with good qualifications in Geography and are willing to study for Honours will be considered for a Scale 9 post.

Further information about the school is available from the Headmaster on receipt of a request from the Director of Education.

HAMPSHIRE
SOUTH EAST AREA
WAKEFORD SCHOOL
Wakeford Way, Havant,
Hants. RG26 7AA
(Hampshire) mixed 11 to
16. 1.6.10 on roll

Applications are invited from
graduate TEACHERS for a 1/2
day post in the Humanities
and/or in the Languages and
Literary or World
Literary an advantage. Can-
didates must be sympathetic
to integrated approaches. Lower
School 11.6. years 9 and
10. Post suitable for gradu-
ate students completing training.

Applications from newly
qualified teachers would be
considered.

Scale 1 post.

Please write in the school
within 10 days of this adver-
tisement.

NORTH WEST AREA
THE JOHN HANSON SCHOOL

Application by letter to the Head, giving details of qualifications and experience, together with the names and addresses of two educational referees. Further details obtainable on request.

R. F. ALBANS DIVISION
 ROUNDWOOD PARK SCHOOL
 (Interdenominational)
 (Group 16)
 Additional TEACHER required September 1st to assist with STUDENTIES. Interview in and ability to contribute to any of Religious Instruction

LEICESTERSHIRE
See the composite advertisement
page 34.

REDBRIDGE
(London Borough of)
KING'S WOOD SECONDARY
SCHOOL
Harbour Road, Hainault, Ilford

Assistance with housing, removal and resettlement expenses in approved cases.
Applications direct to Headmaster at the School.

SHERPESHIRE
EDUCATION COMMITTEE
THE ABRAHAM DARBY SCHOOL
Macclesfield, Cheshire
Reopened September 1945

Mathematics

Required September, 1975, or
soon as possible afterwards.
BREAD OF MATHEMATICS DEPA
MENT for this mixed school on
site with high academic stand
flourishing skill form. Scale
London Addition 2% per ann
Reimbursment of foreign expen
in approved cases.
- Application form available

Monographs for Teachers

RECENT ADDITIONS

The Hydrogen Bond and Other Intermolecular Forces

by J. CLARE SPEAKMAN
With the development of spectroscopic and crystal diffraction methods, the validity of the concept of hydrogen's weaker second bond has been well established. Dr. Speakman provides a concise explanation of this weak intermolecular force and its important effects on the behaviour of many systems, particularly in living organisms. 40pp £0.60

Elements of Organometallic Chemistry

by F. R. HARTLEY
Dr. Hartley's monograph provides a concise introduction to organometallic chemistry that should enable it to be introduced into school teaching. Also included are details of experiments which illustrate some of the principles of practical organometallic chemistry without the use of sophisticated equipment. 103pp £1.20

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by D. F. BALL
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Principles of Free Radical Chemistry

by J. I. G. CADOGAN
Professor Cadogan presents a concise account of the principles and concepts underlying reactions of organic free radicals with particular emphasis on solution processes. It is now recognised that an enormous number of reactions proceed via radical intermediates and this monograph provides a simple introductory background to these reactions. 83pp £1.00

Chemical Aspects of the Atomic Nucleus

by J. G. CUNINGHAM
This volume gives a broad general outline of the ways in which chemical properties, measurements, and behaviour can be affected by the atomic nucleus. The essential nuclear physics is dealt with as well as the general coverage of the subject. 115pp £1.20

Principles of Photochemistry

by J. RUDDAN
This volume covers photochemistry for the fifth form teacher. It deals with energy states of molecules, organic, inorganic and biological reactions, as well as laboratory techniques and the applications of photochemistry. 70pp £1.00

For further information on the above titles and details of the 18 other titles in the series, write to The Marketing Officer at the address below.

THE CHEMICAL SOCIETY

Burlington House, London W1V 0BN

THE QUICK AND THE DEAD

Harold W. Appleton

Educational uses of living organisms: Animal accommodation for schools. 60p. Small mammals. 75p. Schools Council. English Universities Press.

After the Schools' Council publication last year outlining the hazards of keeping small animals in school, I wonder if there are enough schools still brave enough to have animal collections to warrant the production of these books. They are the first two of a series to be prepared at the Centre of Science Education at Chelsea College. They go even further towards making it difficult for schools where a few pet rabbits and guinea pigs are kept for the education and enjoyment of the children.

Animal Accommodation states that we must ensure that creatures are unaffected by fluctuations in conditions in the classroom and the laboratory. I wonder how this compares with the natural habitat? This book covers the provision of purpose-built accommodation. Schools large enough to command sufficient money, and able to employ a full-time animal technician will welcome the advice given. Layout, design, equipment and methods of controlling environment are covered thoroughly. Technical details, bibliographies and reference lists are lavish, and schools able to approach these standards can be proud of their achievement.

Small Mammals starts with 20 demanding criteria to be considered when selecting species to be kept in school. Species not recommended are listed and we are left with a choice of rat, mouse, hamster, gerbil, guinea pig and rabbit—all rodents, thus affording little variety. There follows exhaustive detail of management, breeding and minute technical data. The biology of each species and their uses in school and research are covered. Reference lists and addresses of suppliers are given in appendices.

It is obviously the intention of the authors to protect both pupils and the animals. It seems a pity, however, that every attempt appears to be made to outlaw the innumerable schools—particularly primary schools—where the classroom pet is a useful addition to the children's education.

THE FUTURE OF HUMAN SOCIETIES

Peter J. Baron

Biology: Food and People. By R. Barrass. English Universities Press. £3.75. 0 340 17603 2/17604 0. Unibook £2.25

While professional biologists and teachers of the subject are in general aware of the limitations and problems posed in this volume, it is regrettable that many others have a less than complete understanding. Young scientists in the latter category may well be more important than their elders, in relation to the future of human societies, and teachers must therefore ensure that economic biology has an adequate place in the school curriculum.

Indeed, one might well start this educational venture with the postscript of *Biology: Food and People* which briefly stresses the contributions made by biological science to human welfare. Along with the significant 'Two Levels' of human effort, one of the most important natural environmental problems. In part I of his work, Robert Barrass covers, inevitably and again briefly, human population growth, habitat and man's place in the ecosystem. My feeling is that the pages dealing with ecosystem principles could have been expanded, as it is beneficial to the whole book. After all, like it or lump it, man is an animal and despite his monstrous egoism nothing has so far demonstrated that this species is not ultimately subject to the laws of nature. This point is, however, emphasized in chapter 16 which deals with population control.

The student is subsequently introduced to concepts important in increasing primary production: basic ideas such as soil structure, mineral deficiency diseases, use of fertilizers and crop rotation. First of

Techniques of Biological Preparation. By J. Simpkins. Blackie. £2.50. 0 216 89767 X.

I hope that the picture on the cover—a pigeon lavishly if loosely wrapped in string—will not create the wrong impression; closer inspection reveals that it is not undergoing a refined form of torture, but is a museum specimen in the last stages of mounting. The book was written for the City and Guilds Science Laboratory Technicians' Advance Course, but its use in school for teachers as well as their technicians will be obvious.

There are two sections: Preparation of Whole Specimens, and Preparation of Parts of Specimens. Each is divided into a number of chapters and there is a good index. Liquid mounts in museum jars, preservation of seaweeds and land plants, setting and mounting insects, wax impregnation and resin embedding are described in the first section. There is also a chapter on microscopic whole mounts—often needed in school but difficult to prepare unless the method is known. Finally taxidermy and the preparation of casts and moulds completes this part of the book. The second section describes in detail the method of preparing specimens with injected blood systems. It explains resin injected corrosion casting and the preparation and mounting of skeletons. This latter process is difficult unless the procedure is known and the method is known. Finally taxidermy and the preparation of casts and moulds completes this part of the book. The second section describes in detail the method of preparing specimens with injected blood systems. It explains resin injected corrosion casting and the preparation and mounting of skeletons. This latter process is difficult unless the procedure is known and the method is known. Finally taxidermy and the preparation of casts and moulds completes this part of the book.

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The student is subsequently introduced to concepts important in increasing primary production: basic ideas such as soil structure, mineral deficiency diseases, use of fertilizers and crop rotation. First of

Concise Biology. By A. E. Pound. John Murray. £1.00. 0 7195 2910 1.

This book is described as containing "in easily assimilated form the topics required for O level examinations in Biology". It is a new and fully revised version of an earlier work by the same author. It is perhaps a slight disadvantage that the format is one made popular a few years ago, and copied, not always so efficiently, by many authors since. It cannot be considered as a textbook but rather a condensation, for in 150 pages the whole range of the syllabus is laid out in brief notes and diagrams. It could be used to supplement teaching, perhaps to replace the notebook. At the end is an index, which is in the form of a glossary. The book is divided into 11 sections, the final chapter being mainly a summary of the previous 10. There is hardly a page which does not contain at least one diagram, neatly and clearly drawn and well labelled. Specially selected lists of characteristics and basic facts which a candidate needs to learn are distinguished by a background shading in pale grey. The use of schematic diagrams which can be fairly easily learnt, rather than linear notes, are used to explain photosynthesis, gene action and protein synthesis, homeostasis and nitrogenous excretion. Nitrogen and carbon cycles are well illustrated in this manner. Brief instructions are given for performing the many traditional experiments. I am surprised to find no reference to blood groups in an otherwise very complete chapter. An interesting section of the "Response to stimuli" chapter contains references to learning and memory.

Given to pupils during the final year, or perhaps the final term of a biology course would probably be the most useful way of employing this book. It is not expensive and good candidates might well be encouraged to buy their own copy in these days of educational austerity.

Small Mammals starts with 20 demanding criteria to be considered when selecting species to be kept in school. Species not recommended are listed and we are left with a choice of rat, mouse, hamster, gerbil, guinea pig and rabbit—all rodents, thus affording little variety. There follows exhaustive detail of management, breeding and minute technical data. The biology of each species and their uses in school and research are covered. Reference lists and addresses of suppliers are given in appendices.

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WEATHERING WELL

John Gribbin

Everyday Meteorology. By A. Austin Miller and M. Parry. Hutchinson. £4.95. 0 09 121910 8.

This is the welcome "completely revised" second edition of what has become something of a standard text. First published 17 years ago, *Everyday Meteorology* has been through seven printings before this revision, so one could hardly accuse the publishers and the surviving author of undue haste; certainly the progress made since 1958 fully justifies a new edition.

Some of the most immediately noticeable changes are in the presentation of diagrams (weather maps now in the style of the familiar Daily Weather Report maps, for example) and in the units, which are now metric. A touch of nostalgia

SHOCK TACTICS

Biology of the Future. By Eckehard Münch. Collins £2.00. 0 00 100141 8.

What is biology? How is it conducted and where is it going? These seem to be the questions Eckehard Münch is tackling in *Biology of the Future*. His answers come as numerous snippets of information, illustrated by a large number of colour photographs, most of them superb, and many poorly captioned.

The text is commendable for covering a great deal of ground, but unsatisfactory for covering it so skimpily. The author, explaining an experiment, often describes the procedure with the minimum of detail or less, and his interpretations of experimental results are too thin to satisfy a thinking reader. However, factual information is interesting in itself, and the non-scientist

SOLAR SYSTEM

Cosmology Now. Edited by Lewis John. BBC Publications £2.50. 12370 2.

Almost any 14-year-old could do a television commentary for one of the Moon missions. That's really a measure of how well the lunar and planetary scientists have put out their branch of astronomy. They have been so successful that one considers can be forgiven for thinking that astronomy ends at the planet Pluto.

Too many astronomy books do foster this impression by being strong on the solar system and weak in their accounts of everything else—the stars, galaxies and quasars—where advances have been made in this past decade as exciting as anything happening in the comparatively parochial field of lunar and planetary astronomy. How many people know, for example, that something called the "background radiation", discovered nine years ago, is just about the best clue we have to the history of the universe?

Last year the BBC redressed its balance with a series of Radio 4 talks on cosmology which have been published as *Cosmology Now*. The authors include Fred Bondi, who helped introduce the steady state theory and here contributes a superb chapter explaining how a simple thing like the darkness of the night sky is an important clue to the structure of the universe. Others include Lord Ryle, who has been subjecting the steady state cosmology to elemental tests, and inevitably much of the book is concerned with the flow of astronomy's views on the plausibility of this. Roger Penrose (writing about black holes) and Martin Rees (the Hoyle's Young Successor at Cambridge).

Between them they provide us with the most authoritative view of current thinking about the universe as well as the most readable. None of the tricky questions is skirted (what preceded the universe? what is inside a black hole?), yet the authors manage to avoid most of the flights of fancy that sometimes mar accounts of cosmology. Even so, none of the excitement is missing.

Edward Phillips

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NEW SCIENCE

JOHN MURRAY

BIOLOGY

Recently published

Concise Biology A E Pound
This remarkably low-priced book provides a clear, well-illustrated summary of O level biology work, including key experiments on each topic. Three characteristics distinguish it from others in the field: intensive study of the latest syllabus to identify the common ground between them, isolation and highlighting of the essentials, and the low price. £1.00

Bacteriology John Humphries

Dealing with elementary bacteriological techniques in a simple and highly visual manner, this book may be used with a wide range of courses including O and A level, CSE, City and Guilds and medical laboratory technicians.

"One of the outstanding attributes of this book is that it contains no unnecessary details for it keeps to the point, conveying information in a precise and unambiguous manner." *The School Science Review* £1.85

The Rat as a Small Mammal 3rd Edition H G Rowett

This new edition of a standard text for A level and first degree students is revised throughout. Some basic biochemistry has been added and the sections on endocrinology and neurophysiology rewritten. £1.20

Biology Objective and Completion Tests for O Level Edited by Ernest Clarke

Already widely used as separate papers, these tests are now available in book form. The tests cover single topics in the O level Biology syllabus and there are four provided for revision.

"The section on evolution consists of 36 questions, each carefully worded, and is a model of objective testing dealing efficiently with difficult material." *The Times Educational Supplement* 65p

Human Biology Objective and Completion Tests for O Level Edited by Ernest Clarke

The tests, each of which can be administered in a normal 40 minute period, cover the following subjects: Sensitivity and control: The Skeleton and movement; The vascular system and blood; Respiration; Nutrition; Reproduction (including heredity); Metabolism; Cells, tissues and organs; Hygiene and the home; Public Health; Man and his environment; four revision papers. 70p

Biology: An Environmental Approach—Teachers' Guide Edited by Elizabeth Perrott, Ian Campbell and David Hughes-Evans

Provides suggestions for using the five books in the series and examines the major ideas, investigations and problems set out within them. The appendix details materials and equipment required and lists suppliers.

"This guide will be an invaluable help to all users of the British-style 'Green Version' of the BSCS materials and should immediately be obtained, together with its accompanying volumes, by all biology teachers at present unfamiliar with this work." *LEA Contact* £1.75

Forthcoming titles

Introduction to Human and Social Biology Don Macken and Brian Jones
This main text for O level syllabuses from Don Macken and Brian Jones, Chief Examiner for Human and Social Biology to the Cambridge Examination Board, makes full use of the large format familiar to users of *Introduction to Biology*, but is extensively illustrated by photographs and line

drawings prepared by the authors

Among the syllabuses covered are the Cambridge Overseas, London (Overseas and UK), JMB and Oxford all of which deal extensively with aspects of disease, the course and cure of disease and population dynamics. *Publication: June* £2.15

Success in Nutrition Magnus Pyke

One of a series of self-explanatory courses, this book is comprehensive enough to meet the needs of beginners, examination candidates and anyone involved in catering, dietetics, welfare, food manufacture or any other profession where a basic knowledge of nutrition is necessary. Syllabuses covered include O and A level Food and Nutrition and Home Economics and OND and HNC courses in Hotel and Institutional Management. *Publication: June* Paperback £1.95 net

Problems in Animal Physiology M K Sands

Companion to the well known *Problems in Plant Physiology*, this book provides a source of data which could not be obtained first-hand by A level students. The problems based on the data require skills of analysis, evaluation and hypothesis formation which may usefully be applied to the student's own experimental results.

The Teachers' Edition gives the problems in full and discusses likely answers. *Publication: September* Students' Book £1.20 Teachers' Edition £1.80

Chemistry Objective and Completion Tests for O Level Edited by Ernest Clarke

Already widely used as separate papers, these tests are now available in book form. The tests cover single topics in the O level Chemistry syllabus and there are four provided for revision.

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in chemistry aimed at a particular level (O level and CSE) which covers modern material. The clarity of style and lay-out should mean that the self-learner, or his adviser, is taken through the word without the tedium getting in the way." *The Times Educational Supplement* Paperback £1.50 net

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Experiments in Applied Chemistry Peter Tooley

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Systematic Physical Chemistry L C Rosier

This book covers the new A level syllabuses in Chemistry and Physical Science, presenting its topics in an integrated manner. The author demonstrates how theoretical concepts are built up on the basis of experimental results and modified in the light of subsequent discoveries. Main areas covered are: Atomic and Molecular Structure, States of Matter, Thermodynamics, Physical and Chemical Equilibrium, Electrochemistry, Reaction Kinetics and Surface Chemistry. *Publication: July* £2.95

Chemistry Objective and Completion Tests for O Level Edited by Ernest Clarke

A useful contribution to the material available. Each paper is complete in itself with self-contained instructions; sets of papers are available for class use. This approach could well be a fresh stimulus to some pupils and prove valuable in consolidating much of their course. The book is attractively presented and reasonably priced. *The A.M.A.* 70p

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Particularly useful for sixth form and as an introductory text in higher education, this book should also be of value to all secondary teachers. The illustrations of the techniques of analysis and separation through both the text and a series of simple laboratory experiments are designed to provide a close link with their industrial and medical applications. *Publication: June* 90p

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R. A. ROBERTSON

The author's aim is to cover the last two years of the Scottish 'O' Grade syllabus as clearly and concisely as possible. He gives the essential theory backed up by results from experiments—but excludes experimental details to make the text easier to read and revise from. This book may be used as a concise text or in place of the pupils' notes or for revision. For reinforcement there are revision questions at the end of each chapter and a set of data tables (identical to those used in the 'O' Grade examination) is supplied at the end of the book and frequent reference is made to them.

Probable Publication August Limp £1.30 approx.

A Concise 'O' Level Chemistry

T. J. DAVISON

This book aims to cover the 'O' level syllabus as clearly and concisely as possible and it will also be useful for pupils studying a Nuffield-type course since it provides a simple reference book with the emphasis on understanding. It may be used as a normal textbook or, because it is brief, for revision or in place of the pupils' notes. The book is in three parts: the introductory chapters contain all the information and skills the pupil will need to study the metal and non-metal chemistry in the second and third sections. Limp £1.30

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A. J. YATE

This is a book for the less able 12-16 year old. Because it is vital to capture the reader's interest, many cartoons and photographs have been included. Once his attention has been gained, he is guided through simple experiments and invited to write statements and draw conclusions. The book shows where plastics fit into our world of materials, the various properties of plastics, how the pupil can identify a plastic, and how plastics are made. It can be used as a complete course, but many sections are left open-ended so that the more enthusiastic pupils can follow up investigations in greater detail.

Limp £1.10

Patterns in Biology

DAVID HARRISON

This new and well illustrated book deals with those extremely important topics which form the core of the new 'A' level biology syllabuses. Attention is focused on the core topics of cell biology, genetics and evolution. Investigation of the relationships between genetics, evolution and ecology shows how ecology interchanges at the cellular level is related to energy flow through the biosphere. The text is well supported by many line drawings, photographs and electron micrographs.

EMPHASIS ON VECTORS

David Sturges

Maths Today. By R. Holland and P. Rees. Harparr. Books 1-4 £1.45 each. Teachers Books £2.45 each.

This series of books is a re-write of the Midland Mathematics Experiment texts and is published by Harparr for Midlands Mathematical Experiment Ltd. For any who remember the BBC Television series of a few years ago called *Maths Today* the title of these books is misleading since the approach is quite different. There is only a brief mention of groups and little evidence of the emphasis on structure, that was a feature of those programmes. These books bear the characteristics of the original texts with the emphasis on vectors, leading to a study of vector geometry as opposed to motion geometry, and more computation and algebraic manipulation than is contained in some modern texts. Several of the chapters have been taken over from the original text and re-written while others contain new material. Each chapter has a good proportion of examples of different kinds. There are examples "requiring movement or special apparatus", titled "activity" examples and the authors make the point that these are essential to the work. Also included are "recreational" questions which are optional, and the content of some of these, for example, tessellation, is surprising under this heading.

One other characteristic of the MME material was the development of ideas from apparatus and materials. There were often long sections of investigation questions asking children to see "what happened if...?". Many of these questions have been included in the new series but in a different form. The instructions are given in several short steps that are extremely precise, even including, in some cases, the form of the answer with a blank left for a word. This approach leaves little or no room for investigation on the part of the children and some of the original situations have been robbed of interest by very rigid questions.

A set of teacher's books is available containing answers to the questions and brief comments on each section. Even in these inflationary times it is difficult to understand the cost of these booklets consisting of 75 A5 pages.

As these texts are derived from one of the major mathematics projects of the 1960s the content deserves a much deeper analysis than is possible in a short review. The authors have kept in general to the original scheme and so these books have the faults and virtues of that scheme. In particular the ideas contained in the fourth book show a lack of overall coherence. Many feel, however, that the teaching of mathematics at the secondary stage would benefit at the present time if there were a serious competitor to the SMP texts both in content and approach. The original MME material never achieved the wide following of SMP and this could be because the material was more difficult in nature. It seems a pity that in this needed re-write of the material much of the challenge of the original material both to teacher and pupil has been removed.

Topics From Mathematics: Workshop Manual 1. By Josephine Mold. Cambridge University Press. £2.80. 0 521 20303 1.

The manual is a teacher's resource book for three of the Topics from Mathematics series, *Circles, Trajectories and Solid Models*. The pages of the topic books are reproduced with comments for teachers and side, containing possible reactions to a question, suggestions for additional activities, discussion questions and references to other activities in the topic book. For each topic there is also a summary of mathematical content followed by a list of stationary and equipment needed for the pupils, a list of books for reference, and some pages devoted to the mathematical principles introduced in the book.

The series aims to synthesize the development of ideas from concrete materials and the working of children at their own pace. To achieve this aim the form of the manual is somewhere between a pack of worksheets and a formal text book. It is intended in this way to avoid the sterility of merely moving from one work card to the next and, by using topics of limited scope, to give satisfaction of pursuing a task to a satisfactory end. The topic approach also allows for group work and associated discussion as well as individual work.

Many secondary mathematics teachers have expressed a wish to material allowing this kind of approach although it makes considerable demands on the teacher requiring fine judgment of the moment to interject in a discussion or investigation. There is much in this manual that will help teachers to do this. It is a pity that the manual that will help teachers to do this is a new way of working. For the teacher who has already begun to explore alternative ways of working in mathematics, and particularly for those who wish to encourage investigation, this book can be recommended.

IMPECCABLE SCHOLARSHIP

Dick Tahta

Mathematics and Mathematicians. By P. Dedron and J. Iard. Book 1. £1.50. Book 2. £1.00. Transworld Student Library.

These volumes are included in the list of set books for the Open University's proposed course on the history of mathematics. A foreword lists the criteria adopted by the course team for their selection of appropriate books. Briefly, these include: impeccable scholarship, accessibility at a general level, provision of suitable primary source material, presentation in historical context and a balance in content between mathematics and the people making it. These are exacting criteria and the choice must have been difficult. This work clearly justifies its place as a set book for students taking the course. At the same time it is welcome that the commissioned translation becomes available to other readers.

The books seem intended particularly to meet the criterion of accessibility in that the material is deliberately restricted to elementary mathematics up to the eighteenth century (though this has to be interpreted from the point of view of French school mathematics of the nineteenth century). The first volume presents a chronological account with emphasis on the major figures and with generous quotation from primary sources. The second volume takes a topic approach covering the development of numbers, algebra, notation, first and second degree problems, Pythagoras' theorem, trigonometry and the three classical Greek construction problems. The text is stimulating and readable, and offers material—particularly from French mathematicians—not easily available elsewhere.

It will be interesting to see what the Open University students make of them. For of course someone who only has a "general school level" mathematical background is not thereby lacking in more sophisticated historical interests. The chapters on Greek mathematics somehow fail to relate the works of mathematicians to closely related other activities. The account of Renaissance mathematics presents the great names: each apparently with their ready-made problems to be solved and somehow the intellectual ferment, its antecedents and correlates, are not conveyed.

The scholarship is impeccable enough but it takes no risks; the history of mathematics still needs a hermeneutic interpretation if it is really to catch the attention of the general reader. Like so many books of this sort the attempt to place mathematics in a historical context all too often means the single-sentence snippet of information often induced a single-sentence snippet of the following: "Desargues, followed by Pascal and later La Hire, laid the foundations of projective geometry." "Robert of Chester lived in Spain and is mentioned as having been an instructor at Pamplona in 1145." "Ploce, himself a good mathematician, who took a serious interest in the theory of probability, died on 13th October, 1427."

It is a pleasure to turn from these to the deeply interesting and liberally quoted words of mathematicians throughout the ages. Perhaps more adequate histories of ideas and personalities in the history of mathematics will appear from the graduates of the Open University course in which case these books will have served their well.

ADVANCED LEVEL ADDITIONS

Michael Chapple

Force, Matter and Energy. By P. J. Williams. English Universities Press. £2.45. 0 340 12374 5.

Force, Matter and Energy is a new book, a large book, dealing with the mechanics and properties of matter. The author has included numerous helpful diagrams, and where he sets out to explain something he explains it well. The treatments of simple harmonic and circular motions are sound though a little too mathematical and many teachers will welcome the chapter which begins with motion in a resisting medium and leads on to exponential decay and the diminishing density of the earth's atmosphere with increasing height. There are many exercises and problems distributed throughout the text and each chapter closes with questions taken from past papers belonging to all boards except, curiously, the London University School Examinations Department.

The theory of elasticity is developed with some care but with scant reference to the elastic properties of real materials—how does aluminium differ from brass and why? How does cast iron differ from mild steel and why? There is nothing about the nature or origin of the elastic properties of polymers such as rubber or polythene. Surface tension and viscosity are topics which show up the author's undoubted talent for reasoned presentation but there is hardly a word about non-Newtonian liquids.

Basic concepts such as force and energy are not introduced with any confidence. We read, for example, on page 105: "There is a sense in which the laws of conservation of momentum and energy can never be proved by experiment, because we cannot try them in all possible situations." The pity is that the author like many others, seems unaware that it is not possible to "try" these laws in any situation. The law of conservation of momentum applies to isolated systems only and the experiment can tell us is whether or

not a particular system is isolated. Similarly, since changes of internal energy are calculated from the assumption that energy is conserved, the conservation of energy principle is not something we can test.

These things apart, the book is mostly thorough and clear and the three closing chapters which cover forced oscillations, spinning bodies and gyroscopes, and gravitational forces respectively complete a welcome addition to A level literature.

The Interpretation of Graphs in Physics. By I. S. MacPherson and R. Jones. Hutchinson Educational. £2.45. 0 09 116751 5.

For too long the emphasis in practical physics examinations has been on testing a student's ability to set up simple apparatus and to make a few measurements, with very little left to encourage weaker students to look critically at problems concerning drawing graphs or calculating errors. In 1973, London University introduced into its A level examination a paper designed to test specifically a candidate's skill in drawing graphs and in discussing his results.

The authors of *The Interpretation of Graphs in Physics* take as their starting point the need for a set of exercises to help students prepare for this new examination paper. Their aim may be narrow but the task is important and the book which the authors have written is admirably suited to its purpose.

The first three chapters cover the theory of graphs, some hints on drawing graphs and the calculation of errors while the fourth, and last, chapter consists of 20 detailed exercises. Each exercise relates to a particular experimental situation and in each case there is a graph for the student to draw and half a dozen questions concerning the graph he obtains. A valuable feature of the book is the very full answer section, taking up almost 10 pages, in which the authors set out

in some detail how the different exercises should have been tackled.

With such a good chapter on the assessment of errors, it is disappointing to see hardly any reference to errors among the 20 exercises and many students would have benefited by the inclusion of a few simple questions in the early chapters. Taken as a whole, it is a book that can be strongly recommended.

Advanced Physics Comprehension. By D. P. Newton. Macmillan Educational. 40p. 333 17694 4.

Advanced level physics students who take examinations set by either the Joint Matriculation Board or London University now face a written paper which tests their ability to understand what they read, their capacity to argue beyond what is explicit in what can be properly inferred, and their skill in writing down their ideas in clear English. *Advanced Physics Comprehension*, by D. P. Newton, is a collection of 22 passages and exercises which is intended to help the student to improve his ability to understand, interpret and sometimes criticise information presented in a verbal form.

The passages used in the book cover a wide and interesting array of subjects: fossil man, the Atlantic ridge, superheavy atoms and quasars, and seem, all but three of them, to have been written by the author, although he does not say so. The questions set on the passages are mostly straightforward and only rarely does a student have to employ an idea from physics if he is to answer a question.

The price is very low, and this is a good thing, but the book is very bare. It is a great pity that there is not more guidance on how the exercises should be tackled or how the student should assess his own work and progress. It will be a useful book in the hands of any teacher who is prepared to mark his students' work very closely.

LOST OPPORTUNITIES IN PHYSICS-WITH-CHEMISTRY

T. R. Barrass

An Advanced Level Course in Physical Science. By I. Sinclair, D. Abbott and A. Shedd. Hoddon Educational. £1.65. 0 7175 0695 9.

Nuffield A Level Physical Science teaching materials became generally available in 1973 and at about the same time many examination boards introduced new sixth-form syllabuses in this subject. The Nuffield team saw physical science not as a soft-option in physics-with-chemistry, nor solely as an attempt to integrate physics and chemistry, but as essentially a new sixth form subject: the study of the structure and physico-chemical properties of matter and materials. The same objective applies to the examination boards' new syllabuses.

Following the publication of the Nuffield material and the more widespread introduction of physical science into sixth forms it was inevitable that there would appear from the publishers books written specifically for physical science; the present book is one of this number. Unfortunately it is a most disappointing and uneven book which will do little to strengthen the cause of physical science in schools. As a text for a first year sixth course in physics-with-chemistry the chapters on chemical topics can be recommended as sound and very readable; unfortunately the same cannot be said of the physics sections.

The whole book suffers from very poor proof reading and inconsistencies in symbols and abbreviations. These should be corrected if ever a second edition is required. More important are the many errors of content and sources

of confusion in the physics sections particularly, and the many lost opportunities for a real integration of subject matter across the two disciplines. Among the former are incorrect forms of van der Waals equation, false statements concerning different measures of molecular speed and confusing work on the treatment of quantum numbers; these are first met on page 193 during discussion of the Periodic Classification of the Elements (chapter eight) but the need for them is not explained until page 344 in chapter 12 on "Atomic Structure". The ordering of energy levels is correctly given on page 194 and an entirely false impression of the same facts is given on page 345. On the credit side may be mentioned the good discussion of coherency and the use of IUPAC nomenclature in chemistry. SI units are used throughout but in the early chapters a too strict adherence to SI leads to such horrors as 3.6ks.

The contents include two chapters on "Matter and Stoichiometry" which contain a large element of O level revision and other chapters which give a basic coverage of kinetic theory, motion, oscillations and waves, static and current electricity, classification of the elements, types of chemical reactions, equilibria, and kinetics, atomic structure and radioactivity. Each chapter ends with an experiment section and a set of problems. As a text for physical science the Nuffield context the present book has nothing to recommend it; given a long list of corrections and careful teacher explanation it may be useful for a much less ambitious first year sixth course in physics-with-chemistry.

Science for Mixed Ability Classes

Biology for the Individual

Donald Reid Philip Booth

This series of eight texts covers key topics in a biology course for 11-13 year old pupils of all abilities. The series, originally designed for a teaching project initiated by the Nuffield Resources for Learning Project, has been validated in 80 secondary schools of all types. Based on the material and ideas of the Nuffield 'O' level Biology and Combined Science courses, the books enable each pupil to proceed at his or her own best rate. Each book may, if desired, be used independently to reinforce a particular topic in an otherwise conventionally organized biology course. Books 2, 6, and 7, are particularly suited to Human Biology and Hygiene Courses.

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Apply writing to the Head-
master, giving full details of quali-
fications and experience, and the
names and addresses of referees.
Give name and address of referee
in case of newly qualified teach-
ers.
Assistance with rental expenses.
Assistance with transport to avail-
able.
Leading allowances incurred
others only in approved cases.

[illegible]

CHANNEL ISLES
The Channel Islands Education Council, which is the governing body for the Channel Islands schools, met in Santa Barbara on January 10 to discuss the state of affairs in the schools. The council is made up of representatives from the Channel Islands schools and the Santa Barbara County Office of Education. The council is responsible for the development of the Channel Islands school system and for the allocation of funds to the schools. The council also monitors the performance of the schools and makes recommendations to the Santa Barbara County Office of Education. The council is currently working on a plan to improve the Channel Islands school system. The plan includes the development of a new curriculum, the improvement of the physical facilities of the schools, and the hiring of new teachers. The council is also working on a plan to improve the performance of the schools. The plan includes the development of a new system of evaluation for teachers and students, and the implementation of a new system of awards for students. The council is expected to complete the plan by the end of the year.

CHANNEL ISLANDS
STATES OF JERSEY
YOUNG MEN'S CHRISTIAN LEAGUE
ST. MICHAEL'S CHURCH
(Roll 130 pms)

TEACHER OF MUSIC: Scale 11—A teacher is required to help pupils to achieve the highest standard in the established music tradition in reading music and vocal articulation.

DERBYSHIRE
EDUCATION COMMITTEE
SCHOOL WELBECK ROAD C.S.B.
Sonsaver, Chesterfield S34 6DE
MUSIC. **TEACHER** of
Music, of application, with cur-
riculum vitae and names of
references, to the head teacher at
the school.

DORSET
STANDEN SECONDARY
SCHOOL, GUILDFORD, SURREY
Surrey Avenue, Emsbury Park,
Guilford, GU10 2JH

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The University of Chicago
 Department of Education
 540 East 58th Street
 Chicago, Illinois 60637
 Phone: (312) 937-1234
 Fax: (312) 937-1235
 E-mail: education@uchicago.edu
 Website: <http://www.education.uchicago.edu>
 For more information, please contact:
 Dr. Jane Smith, Director
 (312) 937-1234
 or
 Ms. John Doe, Assistant Director
 (312) 937-1235
 or
 Ms. Mary White, Administrative Assistant
 (312) 937-1236
 or
 Mr. Robert Black, Administrative Assistant
 (312) 937-1237
 or
 Mr. David Green, Administrative Assistant
 (312) 937-1238
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 Mr. Michael Brown, Administrative Assistant
 (312) 937-1239
 or
 Mr. James Wilson, Administrative Assistant
 (312) 937-1240
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 Mr. Thomas Moore, Administrative Assistant
 (312) 937-1241
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 Mr. Charles Taylor, Administrative Assistant
 (312) 937-1242
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 Mr. Christopher Lee, Administrative Assistant
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SECONDARY

Technical Studies

continued

SALFORD (City of)
EDUCATION COMMITTEE
MILAN HIGH SCHOOL
(1,500 Boys and Girls)
For September, 1975.
WOLVERHAMPTON 11.

MARSH continued to be responsible for the subject within the Technical Studies Department.

Work to examination level, new workshops.

Application forms and further particulars from the Headmaster, Milan High School, Macdonald Road, Salford, Lancashire, Tel. 061-773 6022.

STAFFORDSHIRE
EDUCATION COMMITTEE
NETTLETON COMPREHENSIVE SCHOOL
St. Chad's Road, Lichfield
Roll: 1,120 (Group 11)

Required for September, 1975. Scale 1/2. This would be a full-time position for a teacher with a minimum of 5 years' experience in the teaching of Technical Studies. The successful candidate will be a member of a team of 12 and will have a sound working knowledge of engineering and decorative techniques.

Application forms obtainable from the Headmaster, Lichfield High School, Lichfield, Staffs. (stamped addressed envelope).

STAFFORDSHIRE

COUNTY COUNCIL

EDUCATION AREA

EDUCATION COMMITTEE

AVON COUNTY
EDUCATION COMMITTEE
MILAN HIGH SCHOOL
(1,500 Boys and Girls)
For September, 1975.
WOLVERHAMPTON 11.

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Scale 1 Posts

AVON COUNTY
EDUCATION COMMITTEE
MILAN HIGH SCHOOL
(1,500 Boys and Girls)
For September, 1975.
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BEDFORDSHIRE

EDUCATION SERVICE

EDUCATION COMMITTEE

AVON COUNTY
EDUCATION COMMITTEE
MILAN HIGH SCHOOL
(1,500 Boys and Girls)
For September, 1975.
WOLVERHAMPTON 11.

MARSH continued to be responsible for the subject within the Technical Studies Department.

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BUCKINGHAMSHIRE

EDUCATION SERVICE

EDUCATION COMMITTEE

AVON COUNTY
EDUCATION COMMITTEE
MILAN HIGH SCHOOL
(1,500 Boys and Girls)
For September, 1975.
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Application forms obtainable from the Headmaster, Lichfield High School, Lichfield, Staffs. (stamped addressed envelope).

CAMBRIDGESHIRE

EDUCATION SERVICE

EDUCATION COMMITTEE

AVON COUNTY
EDUCATION COMMITTEE
MILAN HIGH SCHOOL
(1,500 Boys and Girls)
For September, 1975.
WOLVERHAMPTON 11.

MARSH continued to be responsible for the subject within the Technical Studies Department.

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Application forms obtainable from the Headmaster, Lichfield High School, Lichfield, Staffs. (stamped addressed envelope).

CUMBERIA

EDUCATION COMMITTEE

AVON COUNTY
EDUCATION COMMITTEE
MILAN HIGH SCHOOL
(1,500 Boys and Girls)
For September, 1975.
WOLVERHAMPTON 11.

MARSH continued to be responsible for the subject within the Technical Studies Department.

Work to examination level, new workshops.

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Application forms obtainable from the Headmaster, Lichfield High School, Lichfield, Staffs. (stamped addressed envelope).

DERBYSHIRE

EDUCATION COMMITTEE

AVON COUNTY
EDUCATION COMMITTEE
MILAN HIGH SCHOOL
(1,500 Boys and Girls)
For September, 1975.
WOLVERHAMPTON 11.

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Application forms obtainable from the Headmaster, Lichfield High School, Lichfield, Staffs. (stamped addressed envelope).

GLoucestershire

EDUCATION COMMITTEE

AVON COUNTY
EDUCATION COMMITTEE
MILAN HIGH SCHOOL
(1,500 Boys and Girls)
For September, 1975.
WOLVERHAMPTON 11.

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Application forms obtainable from the Headmaster, Lichfield High School, Lichfield, Staffs. (stamped addressed envelope).

Leicestershire

EDUCATION COMMITTEE

AVON COUNTY
EDUCATION COMMITTEE
MILAN HIGH SCHOOL
(1,500 Boys and Girls)
For September, 1975.
WOLVERHAMPTON 11.

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Application forms obtainable from the Headmaster, Lichfield High School, Lichfield, Staffs. (stamped addressed envelope).

Lincolnshire

EDUCATION COMMITTEE

AVON COUNTY
EDUCATION COMMITTEE
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For September, 1975.
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Northamptonshire

EDUCATION COMMITTEE

AVON COUNTY
EDUCATION COMMITTEE
MILAN HIGH SCHOOL
(1,500 Boys and Girls)
For September, 1975.
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Application forms obtainable from the Headmaster, Lichfield High School, Lichfield, Staffs. (stamped addressed envelope).

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METROPOLITAN BOROUGH OF BURY

Teaching posts are for September, 1975, unless otherwise stated.

The salaries for the positions referred to in this advertisement are subject to the addition of the threshold payment at the rate of £229.85 per annum.

Candidates seeking their first teaching appointment should indicate this clearly on their request for application forms.

Forms of application for the following teaching appointments obtainable from and returnable to the Director of Education, Town Hall, Bury, by the dates indicated, unless otherwise stated.

Holcombe C.E. Primary School,
Holcombe, Ramsbottom, BL8 4PA (Group 2)
DEPUTY HEAD TEACHER
Closing date 23rd May, 1975.

Woodbank County Primary School
Brandsheolme Road, Bury, BL8 1AX
(No. on roll 284)
ASSISTANT TEACHER (Scale 2)
for Boys' Sports.
Closing date 27th May, 1975.

St. Peter's C.E. Primary School
Whitefield Road, Bury BL9 9PW (No. on roll 301)
ASSISTANT TEACHER (Scale 2)
to take charge of Boys' P.E. and Games.
Closing date 27th May, 1975.

Our Lady of Lourdes R.C. Primary School
Pirbright Drive, Bury, BL8 1JQ (Group 5)
ASSISTANT TEACHERS (2) (Scale 1)
for Infants.
Closing date 27th May, 1975.

Ripon Avenue School,
Ripon Avenue, Whitefield, Manchester M26 6PJ.
E.B.N. (W) Department.
ASSISTANT TEACHER (Scale 1)
to take special reading groups and general subjects throughout the school. Knowledge of glaucology an advantage.
Closing date 27th May, 1975.

Oak Lodge Annex
Prestwich E.S.N. (S) Department.
ASSISTANT TEACHERS (2) (Scale 1)
to take charge of the school. Knowledge of glaucology an advantage.
Closing date 27th May, 1975.

Whitefield County Secondary School
Albert Road, Whitefield M25 6NH
(No. on roll 1,100 mixed)
ASSISTANT TEACHER for Art (Scale 1)
ASSISTANT TEACHER for History (Scale 1)
Forms of application obtainable from and returnable to the Head Teacher at the School by the 27th May, 1975.

Hawthorn C.E. Primary School
Hawthorn Lane, Hawthorn BL8 4JL
(No. on roll 64)
ASSISTANT TEACHER (Scale 1)
to take charge of the school. Knowledge of glaucology an advantage.
Closing date 27th May, 1975.



NORFOLK COUNTY COUNCIL

EDUCATION DEPARTMENT

The Education Service in Norfolk is administered through five Area Offices.

Applications are invited for posts in those areas as set out below.

Unless otherwise stated, all appointments are for September 1975 and application forms and further details (where applicable) are obtained by sending a stamped, addressed foolscap envelope to the Head of the School concerned, where completed forms should be returned as soon as possible.

Removal Expenses are paid in accordance with the Authority's scheme.

CENTRAL AREA

THORPE GRAMMAR SCHOOL
Laundry Lane, Norwich, Co. Educational (Roll 1180)
Headmaster: Mr F. P. Ball, M.A., M.Ed.
Scale 1/2
Required for SEPTEMBER.

Scale 1/2
Full time suitable qualified and experienced teacher(s) of ENGLISH. Ability and interest in girls' games would be an asset.

Scale 1
Full time suitable qualified and experienced teacher of HISTORY. Ability and interest in girls' games would be an asset.

Curriculum vitae, and names of two referees please to the Headmaster without delay, with s.a.o. for particulars, which will be sent by return.

Required for SEPTEMBER
HEARTSEASE COMPREHENSIVE
Marrall Road, Norwich. (Roll 960)
Headmaster: Mr J. B. Browning.

Scale 1
MODERN LANGUAGES. GRADUATE preferred to teach French and German or Spanish. 6th Form work available.

Scale 1/2
REMEDIAL Experienced Teacher for this department. Full range of materials and equipment.

Application should be by letter in the first instance giving details of experience and the names and addresses of two referees. This should be sent to the Headmaster at the school as soon as possible.

WYMONDHAM SCHOOL
Polly Road, Wymondham (Roll 1,100)
Headmaster: Mr J. Sims, B.Sc.
Scale 1/2
Religious Education. Applications from Students seeking first appointment welcomed.

THE HERBERT SCHOOL
Cecil Road, Norwich NR1 2PL (Roll 1,750)
Headmaster: Dr W. Roy, B.Sc. (Econ.).
Scale 1/2
MATHEMATICS. Sixth form work available.

Scale 1 post
NEEDLECRAFT.
Required from September, 1975.
Applications welcome from newly qualified and experienced teachers.

NORTHERN AREA

NORTH WALSHAM HIGH SCHOOL FOR GIRLS
North Walsham, Norfolk (Roll 543)
Headmaster: Miss E. M. Smythe, B.A.
Graduate required for September to help with the teaching of Biology throughout the school to "A" level. Some help with mathematics and physics. There would be the opportunity to teach some science or physics. Applications from newly qualified and experienced teachers will be considered. This should be sent to the Headmaster at the school as soon as possible.

Scale 1/2
Teacher responsible for French throughout the school. Scope for further development to C.S.E. level. English, with another subject desirable, preferably English, with Girls' Games and other school activities desirable.

Scale 1
Teacher responsible for Science in lower part of school. Must be a graduate but not essential.

GORSESTON GRAMMAR SCHOOL
Lynn Grove, Gorseston, Great Yarmouth, NR31 5AP (Roll 597)
Headmaster: Mr W. N. Datten, B.A.
Scale 2 (pre-Houghton)
Teacher of Biology required to teach to "O" and "A" level.

MARTHAM SECONDARY SCHOOL
Somerton Road, Martham, Norfolk NR29 4DP (Roll 375)
Headmaster: Mr G. J. London
Scale 1/2
Teacher of Biology required to teach to "O" and "A" level.

Style's Secondary School
Tratrig Road, Great Yarmouth, Norfolk NR30 2LA (Roll 523)
Headmaster: Mr S. P. Brockway
Scale 1
PART-TIME (0.7) Teacher of MUSIC required.

CAISTER SECONDARY SCHOOL
Windsor Road, Caister on Sea, Norfolk (Roll: 509)
Headmaster: Mr H. Pascoe
Scale 1
English. Students seeking a first teaching appointment would be considered.

Scale 1/2
Teacher responsible for French throughout the school. Scope for further development to C.S.E. level. English, with another subject desirable, preferably English, with Girls' Games and other school activities desirable.

Scale 1
Teacher responsible for Science in lower part of school. Must be a graduate but not essential.

Scale 2 (pre-Houghton)
Teacher of Biology required to teach to "O" and "A" level.

Scale 1
Teacher responsible for French throughout the school. Scope for further development to C.S.E. level. English, with another subject desirable, preferably English, with Girls' Games and other school activities desirable.

Scale 1
Teacher responsible for Science in lower part of school. Must be a graduate but not essential.

Scale 2 (pre-Houghton)
Teacher of Biology required to teach to "O" and "A" level.

Scale 1
Teacher responsible for French throughout the school. Scope for further development to C.S.E. level. English, with another subject desirable, preferably English, with Girls' Games and other school activities desirable.

Scale 1
Teacher responsible for Science in lower part of school. Must be a graduate but not essential.

Scale 2 (pre-Houghton)
Teacher of Biology required to teach to "O" and "A" level.

Scale 1
Teacher responsible for French throughout the school. Scope for further development to C.S.E. level. English, with another subject desirable, preferably English, with Girls' Games and other school activities desirable.

Scale 1
Teacher responsible for Science in lower part of school. Must be a graduate but not essential.

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Teacher of Biology required to teach to "O" and "A" level.

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Scale 2 (pre-Houghton)
Teacher of Biology required to teach to "O" and "A" level.

Scale 1
Teacher responsible for French throughout the school. Scope for further development to C.S.E. level. English, with another subject desirable, preferably English, with Girls' Games and other school activities desirable.

Scale 1
Teacher responsible for Science in lower part of school. Must be a graduate but not essential.

Scale 2 (pre-Houghton)
Teacher of Biology required to teach to "O" and "A" level.

SOUTHERN AREA

CLIFF PARK SECONDARY SCHOOL
Kennedy Avenue, Gorseston, Great Yarmouth, NR31 5AP (Roll 480)
Headmaster: Mr R. A. Stock, M.A.
Scale 1
Teacher responsible for French throughout the school. Scope for further development to C.S.E. level. English, with another subject desirable, preferably English, with Girls' Games and other school activities desirable.

Scale 1/2
Teacher responsible for French throughout the school. Scope for further development to C.S.E. level. English, with another subject desirable, preferably English, with Girls' Games and other school activities desirable.

Scale 1
Teacher responsible for Science in lower part of school. Must be a graduate but not essential.

Scale 2 (pre-Houghton)
Teacher of Biology required to teach to "O" and "A" level.

Scale 1
Teacher responsible for French throughout the school. Scope for further development to C.S.E. level. English, with another subject desirable, preferably English, with Girls' Games and other school activities desirable.

Scale 1
Teacher responsible for Science in lower part of school. Must be a graduate but not essential.

Scale 2 (pre-Houghton)
Teacher of Biology required to teach to "O" and "A" level.

Scale 1
Teacher responsible for French throughout the school. Scope for further development to C.S.E. level. English, with another subject desirable, preferably English, with Girls' Games and other school activities desirable.

Scale 1
Teacher responsible for Science in lower part of school. Must be a graduate but not essential.

Scale 2 (pre-Houghton)
Teacher of Biology required to teach to "O" and "A" level.

Scale 1
Teacher responsible for French throughout the school. Scope for further development to C.S.E. level. English, with another subject desirable, preferably English, with Girls' Games and other school activities desirable.

Scale 1
Teacher responsible for Science in lower part of school. Must be a graduate but not essential.

Scale 2 (pre-Houghton)
Teacher of Biology required to teach to "O" and "A" level.

Scale 1
Teacher responsible for French throughout the school. Scope for further development to C.S.E. level. English, with another subject desirable, preferably English, with Girls' Games and other school activities desirable.

Scale 1
Teacher responsible for Science in lower part of school. Must be a graduate but not essential.

Scale 2 (pre-Houghton)
Teacher of Biology required to teach to "O" and "A" level.

Scale 1
Teacher responsible for French throughout the school. Scope for further development to C.S.E. level. English, with another subject desirable, preferably English, with Girls' Games and other school activities desirable.

Scale 1
Teacher responsible for Science in lower part of school. Must be a graduate but not essential.

Scale 2 (pre-Houghton)
Teacher of Biology required to teach to "O" and "A" level.

Scale 1

SCHOOL, The Fairway, Otterton, Stroud
R OF GERMAN
 (19/7/55)
 German in the third year upward
 form work for a suitable candidate
 in the Lower School would also be
SCHOOL, 1111 Top Drive, Marple
 September for this large, mixed com-
 plemented by the amalgamation of two
 schools sharing an attractive site over

ENGLISH
(ES)
Grades to C.S.E. and G.C.E. 'O' level in English Literature, and G.C.E. 'A' level. Interest in Library work would be an advantage.

ENGLISH
(ES)

Apply (no forms) with full particulars and names and addresses of two referees to: For Secondary Schools: The Head Principal. For Primary Schools: The Director of Education, County Hall, Glenfield, Leicester LE3 8RE.

SECONDARY Scale 2 Posts continued

LEICESTERSHIRE

See the composite advertisement on page 94.

LIVERPOOL

ST. FRANCIS XAVIER'S COLLEGE, Regentfield Road, Liverpool, L25 8EG.
H.C. Direct Grant Grammar School (1600 pupils).
Required for September, 1975—
MASTER for HEAD of ENGLISH (Scale 2).
ASSISTANT MASTER for GEOGRAPHY.
ASSISTANT MASTER for BIOLOGY with CHEMISTRY.
ASSISTANT MASTER for HISTORY.
Apply as soon as possible to the Headmaster with the names of two referees.

NORTH YORKSHIRE

EDUCATION GRAMMAR SCHOOL, Armthorpe Avenue, Harrogate, North Yorkshire, HG2 8JH.
Required for September, 1975—
MASTER for HEAD of ENGLISH (Scale 2).
ASSISTANT MASTER for GEOGRAPHY.
ASSISTANT MASTER for BIOLOGY with CHEMISTRY.
ASSISTANT MASTER for HISTORY.
Apply as soon as possible to the Headmaster with the names of two referees.

REDBRIDGE

London Borough of Redbridge, Parnham Road, Parnham, London E12 6NP.
Scale 2 post available for experienced candidate, but college leavers welcome to apply.
To teach up to advanced level; additional French or R.E. advantageous. S.P.A. available.

SHERBORNE

WILLIAMSON ACADEMIC SCHOOL, Ash Road, Wilton, Hampshire, RG22 7JH.
Required for September, 1975—
MASTER for HEAD of ENGLISH (Scale 2).
ASSISTANT MASTER for GEOGRAPHY.
ASSISTANT MASTER for BIOLOGY with CHEMISTRY.
ASSISTANT MASTER for HISTORY.
Apply as soon as possible to the Headmaster with the names of two referees.

secondary opportunities with Nottinghamshire

HEADS OF DEPARTMENT

NORTH BORDER COMPREHENSIVE
Whitehouse Road, Bircholes, Doncaster, Yorks., DN11 8EN
Headmaster: A. A. Haslam, B.Sc., Ph.D., F.R.A.S.
Mixed: 700 (11-18)

**HEAD OF SCIENCE DEPARTMENT
SCALE 4**
Biology preferred.

BECKET COMPREHENSIVE

Willford Lane, Nottingham
Headmaster: T. Dillon, B.A.
Mixed: 950 (11-18)

HEAD OF MUSIC—SCALE 2 or 3

According to experience and qualifications. Ability to teach Music to 'A' level.

This Comprehensive School, opening in September, 1975, will be created by the amalgamation of the Becket School and Corpus Christi R.C. (Aided) Secondary School.
Applications, with full curriculum vitae and names of two referees, as soon as possible to the Reverend J. Monaghan, 25 Charnwood Grove, West Bridgford, Nottingham.

BEESTON FIELDS SECONDARY BOYS'
Boundary Road, Beeston, Nottingham NG9 2RG
Headmaster: T. J. Hillon, B.A.
Boys: 300 (11-18)

**HEAD OF ENGLISH DEPARTMENT
SCALE 2**
Well established C.S.E. courses.

THE DUKERIES COMPREHENSIVE
New Ollerton, Newark, Nottingham NG22 9TD
Headmaster: J. I. West, M.A.
Mixed: 1,730 (11-18)

HEAD OF MATHEMATICS—SCALE 4
Candidates should have valuable experience in Comprehensive Education with determination firmly to lead a team in varied studies up to 'A' level and including C.S.E. Mode 3. There is ample scope for imaginative and well-disciplined development of the learning of Mathematics throughout the purpose-built school.

THE DUKERIES COMPREHENSIVE
New Ollerton, Newark, Nottingham NG22 9TD
Headmaster: J. I. West, M.A.
Mixed: 1,730 (11-18)

HEAD OF MATHEMATICS—SCALE 4
Candidates should have valuable experience in Comprehensive Education with determination firmly to lead a team in varied studies up to 'A' level and including C.S.E. Mode 3. There is ample scope for imaginative and well-disciplined development of the learning of Mathematics throughout the purpose-built school.

CHARNWOOD COMPREHENSIVE
Farnborough Road, Clifton, Nottingham NG11 8LU
Headmistress: Miss M. E. Cooper
Mixed: 650 (11-18)

MUSIC—SCALE 2
To be responsible for the subject throughout the school. The school has a tradition of good choral work and there are opportunities for instrumental work.

THE DUKERIES COMPREHENSIVE
New Ollerton, Newark, Nottingham NG22 9TD
Headmaster: J. I. West, M.A.
Mixed: 1,730 (11-18)

GEOGRAPHY—SCALE 2
Second in a lively department. S.P.A. available.

ECONOMICS—SCALE 2
To teach up to advanced level; additional French or R.E. advantageous. S.P.A. available.

FAIRHAM COMPREHENSIVE
Farnborough Road, Clifton, Nottingham NG11 9AE
Headmaster: R. J. Thom, M.A.
Mixed: 1,700 (11-18)

REMEDIAL—SCALE 2

**NEWARK CHURCH OF ENGLAND
SECONDARY**
Barby Road, Newark, Nottinghamshire
Headmaster: J. R. Gold.
Mixed: 630 (11-18)

MATHEMATICS—SCALE 2
To join a Mathematics Department of five. To take pastoral care of year group.

SCALE 1

BRAMCOTE HILLS GRAMMAR
Moor Lane, Bramcote, Beeston, Nottingham NG9 3GA
Headmaster: H. R. Lyons, B.A.
Mixed: 1,450 (11-18)

FRENCH—SCALE 1
Must be prepared to teach throughout age range.

**CARLTON LE WILLOWS
COMPREHENSIVE**
Wood Lane, Gedling, Nottinghamshire, NG4 4AA
Headmaster: T. E. Dowman, M.A.
Mixed: 1,770 (11-18)

Graduate for CHEMISTRY
To teach Nuffield Combined Science in Years 1 and 2 and Nuffield Chemistry to 'A' level.
Excellent facilities on campus site.

KING EDWARD VI GRAMMAR
London Road, Retford, Nottinghamshire, DN22 6AU
Headmaster: T. E. Savage, T.D., M.A.
Boys: 400 (11-18)

ART
Ability to contribute to out-of-school activities essential.

MAGNUS GRAMMAR
Earp Avenue, Newark, Nottinghamshire, NG24 4AB
Headmaster: Dr. N. Clayton, B.A.
Boys: 570 (11-18)

MASTER FOR MATHEMATICS
To teach subject up to and including G.C.E. 'O' level. The initial requirement is for junior forms but there are prospects for further responsibility for both C.S.E. and G.C.E. work. An integrated traditional and modern course is followed.

SOLIHULL

EDUCATION AUTHORITY, Kingshill School, Kingshill Lane, Birmingham B37 0NF.
Required for September, 1975—
HEAD of ENGLISH (Scale 2 post).
A well-qualified and experienced teacher to lead a team of English teachers in a newly established department with a strong emphasis on the teaching of English as a second language. The department will be equipped with a range of modern facilities and a well-stocked library. The successful candidate will be responsible for the development of the department and for the training of staff. A knowledge of the Birmingham area is an advantage.

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HEAD of ENGLISH (Scale 2 post).
A well-qualified and experienced teacher to lead a team of English teachers in a newly established department with a strong emphasis on the teaching of English as a second language. The department will be equipped with a range of modern facilities and a well-stocked library. The successful candidate will be responsible for the development of the department and for the training of staff. A knowledge of the Birmingham area is an advantage.

MATHEMATICS

Scale 1 post.
To join a strong and successful department of mathematics teachers in a newly established department with a strong emphasis on the teaching of mathematics as a second language. The department will be equipped with a range of modern facilities and a well-stocked library. The successful candidate will be responsible for the development of the department and for the training of staff. A knowledge of the Birmingham area is an advantage.

MATHEMATICS

Scale 1 post.
To join a strong and successful department of mathematics teachers in a newly established department with a strong emphasis on the teaching of mathematics as a second language. The department will be equipped with a range of modern facilities and a well-stocked library. The successful candidate will be responsible for the development of the department and for the training of staff. A knowledge of the Birmingham area is an advantage.

AVON COUNTY

Scale 1 post.
To join a strong and successful department of mathematics teachers in a newly established department with a strong emphasis on the teaching of mathematics as a second language. The department will be equipped with a range of modern facilities and a well-stocked library. The successful candidate will be responsible for the development of the department and for the training of staff. A knowledge of the Birmingham area is an advantage.

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CITY OF COVENTRY

Required for Autumn Term, Assistant Teachers for:

ALDERMAN CALLOW SCHOOL AND COMMUNITY COLLEGE, Kington Road (450 on roll)
FACULTY OF MATHEMATICS AND SCIENCE.

1. Teacher with a specialist qualification in Chemistry.
2. MATHEMATICS with some integrated Science in the Lower School.

New Scale 2 post available for experienced candidate, but college leavers welcome to apply.

BARR'S HILL MIXED COMPREHENSIVE SCHOOL, Radford Road (550 on roll, 130 in Sixth Form)
Barr's Hill is at present a 3 F.E. girls' grammar school which in September will take its first mixed non-selective 8 F.E.—at first year level. College leavers welcome to apply for the following posts:

1. ENGLISH—to assist in teaching the subject throughout the school. Interest in Drama an advantage. Scale 2 available for suitable applicant.
2. BIOLOGY—up to 'O' level and if possible 'A' level, together with General Science in the first three years. Scale 2 available for suitable applicant.

BINLEY PARK MIXED COMPREHENSIVE SCHOOL, Brandon Road (1,070 on roll)

1. CRAFT—to work in well equipped Technical Studies Department, scope for individual approach and opportunity to work in any branch of the department. There are well established G.C.E. CSE courses in Wood and Metalwork and made 3 C.S.E. V.M. courses.

CALUDON CASTLE BOYS' COMPREHENSIVE SCHOOL, Axholme Road (1,580 on roll)

Established school on north of city, sited on 63 acres enjoying strong academic and sporting traditions.

1. GEOGRAPHY—with environmental studies.
2. MATHEMATICS—specialist post.
3. ECONOMICS—'A' level and new C.E.E. social economics courses.
4. ENGLISH—interest in Drama an advantage.
5. PHYSICAL EDUCATION—excellent specialist facilities including heated indoor swimming pool.

COUNDON COURT MIXED COMPREHENSIVE SCHOOL, Northbrook Road (1,820 on roll, 150 in 6th Form and annex for 1st year pupils)

1. HOME RELATIONS AND ADOLESCENT UNIT—New unit to be established for pupils needing individual programmes and guidance, especially in 4th and 5th years.
2. MATHEMATICS—Maths laboratory, developing course in computer science.
3. RELIGIOUS EDUCATION—Two specialist rooms. Community Service and integrated courses.
4. TECHNICAL DRAWING—to 'O' level. Specialist drawing offices. Scope to develop 'A' level courses.
5. TECHNICAL STUDIES—Wood or Metalwork. New work-shops, interest in car maintenance welcome.
6. ENGLISH—large department with several options for study. Two sixth form groups each year.
7. FRENCH—language laboratory—6th form work available if required.
8. FRENCH—Scale 2. Two posts available, one after a period of assessment to be made 2nd in Department. French taken to 'A' level, language laboratory.
9. HOME ECONOMICS. Recently completed Home Economics suite. Scale 2 for suitably qualified and experienced applicant.

ERNESFORD GRANGE SCHOOL AND COMMUNITY COLLEGE, Princethorpe Way (970 on roll)

New 8 F.E. Mixed Comprehensive, opened 1972 to provide rural, leisure and Educational opportunities for local pupils, now in a major phase of development on pleasant site in Eastern outskirts of city.

HISTORY or SOCIOLOGY—for team starting community education project with Lower School, other teaching also available.

MATHEMATICS—ability to teach S.M.P. an advantage.

WHAM PARK MIXED COMPREHENSIVE SCHOOL, Wren Lane (September, 1975, number on roll 1,400)

10 F.E. school, opened in 1970 with first-year pupils, with first Lower Sixth of approximately 100 in September, 1975. Master or Mistress to teach the following subjects:

1. BIOLOGY—'O' level available now and, ultimately, 'A' level.
2. PHYSICS—lively department working towards Nuffield 'A' level Physics.
3. RELIGIOUS EDUCATION—interest in the NEW 'R.E. Working with a broad based syllabus relevant to the multi-belief system, C.S.E. and G.C.E. examinations.
4. BOYS' CRAFTS—any combination of Woodwork, Metalwork and Technical Drawing.
5. BUSINESS STUDIES—Typewriting, Office Practice and Commerce.

6. Teacher to assist in the development of the curricula and implementation of General Courses and Community Involvement in the Upper School, including the Sixth Form.
7. GENERAL ART—with special interest in photographic techniques.

FOXFORD MIXED COMPREHENSIVE SCHOOL (Social Priority School) Grange Road (1,800 on roll)

Pleasantly situated on northern outskirts of city, school has strongly developed unstreamed learning techniques in operation for first three years and individualised timetables for all other years. Well established courses at all levels including G.C.E. (College leavers welcome to apply).

1. Teacher in charge of TECHNICAL DRAWING and DESIGN, New Scale 2—to be responsible for further developing learning resources and design courses under Head of Craft Department.
2. MODERN LANGUAGES. New Scale 2—to act as second in department to develop French and European Studies, ability to teach some German an advantage.
3. REMEDIAL (Posts above Scale 1 available according to experience)—with interest and experience in General Remedial work or Remedial work with immigrant pupils or experience with phase 2 English as a Second Language.
4. RELIGIOUS EDUCATION (Scale 2 post for suitably experienced candidate) to develop R.E. learning techniques in strong Humanities Department.
5. BOYS' CRAFT (mainly Woodwork, but ability to teach other areas an advantage). All pupils take all crafts for first three years. Ten specialist rooms plus very large heated project area.
6. PHYSICAL EDUCATION for girls.
7. ENGLISH.
8. ART, facilities include excellent suite of five integrated Art areas in very progressive department. Teacher required for painting, drawing and history of Art to work in a team of five.

LYNG HALL GIRLS' COMPREHENSIVE SCHOOL, Blackberry Lane (1,600 on roll)

College leavers welcome to apply for the following posts:

1. ENGLISH—to work in large department actively involved in 'O' and 'A' level work.
2. DRAMA—fully equipped studio—plans to develop subject to C.S.E. level.
3. MATHEMATICS—S.M.P. to C.S.E. and 'O' level.
4. HOME ECONOMICS—to join a team in a lively active department.
5. BIOLOGY.

PRESIDENT KENNEDY MIXED COMPREHENSIVE SCHOOL, Rookery Lane (1,850 on roll)

Large purpose built 12 F.E. school, situated on the north-west boundary in pleasant surroundings. Facilities include swimming pool, floodlit football pitch, sports hall and extensive grounds.

1. FRENCH—Scale 2 post to teach throughout the school.
2. COMMERCE and TYPING, Scale 2 available for suitable applicant.
3. RELIGIOUS EDUCATION—to join a team involved in teaching the subject to all ages and abilities but whose chief commitment during the first year will be with 11-14 age groups. Candidates will be expected to teach comparative Religion and lead discussion groups.
4. TECHNICAL STUDIES—Woodwork, Metalwork and T.D.—opportunity to specialise if so desired. Large department with excellent facilities.
5. ENGLISH—to C.S.E., 'O' and 'A' level—lively and enthusiastic department, interest in Drama an advantage but not essential.

SIDNEY STRINGER SCHOOL AND COMMUNITY COLLEGE (Social Priority School) Cox Street (1,780 on roll)

12 F.E. mixed 11-18 comprehensive school serving a multi-racial Community in City Centre developing integrated community—School programmes committed to policy of inter-disciplinary work, pupil choice, unstreaming, resource based learning and team teaching. Application form, and further details from the Head at the school—Telephone 8758.

1. MATHEMATICS teaching programme to suit interest of applicant. (College leavers welcome to apply.)
2. FRENCH and/or GERMAN—new Scale 2—required to promote and organise the teaching of French and German throughout the school, within the Communications Faculty working alongside teachers of Asian languages and English as a second language.
3. Teacher for children with READING DIFFICULTIES—New Scale 2 to join team who have developed special skills in working with children who are very backward readers required to work with 1st and 2nd year pupils.

Apply by letter giving full details (age, qualifications, experience), with names and addresses of two educational referees to the Head Teacher of the School concerned, unless otherwise stated.

TILE HILL WOOD GIRLS' COMPREHENSIVE SCHOOL, Nuthall Avenue (1,410 on roll)

1. CHEMISTRY.
2. FRENCH—full audio-visual facilities.
3. HISTORY.
4. ART (2 posts) one specialist for Drawing and Painting and one for 3-D work. Facilities for carving, casting, modelling and construction work.
5. PHYSICAL EDUCATION.

WHITLEY ABBEY MIXED COMPREHENSIVE SCHOOL, Abbey Road (1,580 on roll)

1. HISTORY—for large and thriving department. History is integrated with Religious Education in first three years—opportunities to teach throughout the age and ability range up to G.C.E. and C.S.E.
2. BOYS' PHYSICAL EDUCATION—main interest Rugby football during winter months. To join department of five—opportunities may be available to teach well established made 3 C.S.E. course in P.E. School is situated on S.E. side of city, well equipped having 60 acres of fields, 400 metres under track, gymnasium, hall and lake. Strong sporting traditions.
3. HOME ECONOMICS—Home Economics and Needlework teachers to share in work of department of seven. C.S.E., 'O' and 'A' level courses are well established and work in Child Care is being developed. Four Home Economics rooms and two Needlework rooms.

THE WOODLANDS BOYS' COMPREHENSIVE SCHOOL, Broad Lane (1,580 on roll)

1. Assistant Teacher for FRENCH to 'O' level or 'A' level.
2. Assistant Teacher for MATHEMATICS to 'O' level.
3. Assistant Master for WOODWORK.
4. Assistant Teacher for ECONOMICS with GEOGRAPHY. (College leavers are encouraged to apply for all posts.)

WOODWAY PARK MIXED COMPREHENSIVE SCHOOL (Social Priority School) Woodway Lane (1,160 on roll)

Additional staff to cover the following subjects: RELIGIOUS EDUCATION, DRAMA, ENGLISH, FRENCH, METALWORK, WOODWORK, PHYSICS—Scale 2 post available, OFFICE PRACTICE and Typewriting, REMEDIAL WORK, GEOGRAPHY. College leavers (for whom there will be a reduced teaching load) welcome to apply for all posts.

BISHOP ULLATHORNE R.C. MIXED COMPREHENSIVE SCHOOL, Leasowes Avenue (1,580 on roll)

Masters or Mistresses for RELIGIOUS EDUCATION (R.C. essential). Scale 2 posts would be available for suitable candidates for the following subjects: ENGLISH, GEOGRAPHY, HISTORY, METALWORK (some T.D. and/or WOODWORK if desired)—work with slow learning pupils in 3rd, 4th and 5th years for approximately half the timetable, please state specialist subject offered. PHYSICS and GENERAL SCIENCE to 'O' and C.S.E. levels—share of 6th form work possible.

BLUE COAT-C.E. MIXED COMPREHENSIVE SCHOOL, Terry Road (800 on roll)

GERMAN—Scale 2 available for experienced applicant.

CARDINAL NEWMAN R.C. MIXED COMPREHENSIVE SCHOOL, Sandpits Lane (1,350 on roll)

Appointments in one or more of the following subjects: SCIENCES (Physics, Chemistry, Biology—up to 'A' level), TECHNICAL SUBJECTS, HISTORY, MATHEMATICS, MUSIC, LANGUAGES—especially French.

The Governors may be able to help with short term accommodation for those who are appointed and might otherwise find this a problem.

CARDINAL WISEMAN R.C. BOYS' COMPREHENSIVE SCHOOL (Social Priority School), Pollers Green Road (1,070 on roll)

Teachers required for this expanding comprehensive school able to offer the following subjects: PHYSICS, CHEMISTRY, MATHEMATICS, RELIGIOUS EDUCATION, FRENCH, HISTORY, ART, interest in painting and photography preferred. PHYSICAL EDUCATION—the school enjoys excellent facilities including extensive playing fields and indoor swimming pool, GEOGRAPHY, CRAFT.

Also Second in GEOGRAPHY department, Scale 2 for teacher with suitable experience and an interest in modern developments.

CARDINAL WISEMAN R.C. GIRLS' COMPREHENSIVE SCHOOL (Social Priority School), Pollers Green Road (1,150 on roll)

Teachers required offering one or more of the following subjects: ENGLISH to 'O' and 'A' level, TYPING/COMMERCE, FRENCH, GEOGRAPHY, RELIGIOUS EDUCATION, MATHEMATICS, GENERAL SCIENCE, BIOLOGY.

Unless otherwise stated please apply by letter giving details and the names of two referees to the Headteacher at the appropriate school.

INDEPENDENT Other Appointments continued

WORCESTERSHIRE

Leaveson (Leaveson) Electric, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

Assistant MUSTER required for September 1975. The position is vacant and the successful candidate will be responsible for the management of the Muster. The post involves teaching in a range of National Certificate and Technician Courses.

Colleges of Further Education

AVON COUNTY

BRISTOL TECHNICAL COLLEGE
Tuition, Bristol 1975/76
LECTURER 1 in BRICKWORK to teach to Craft Certificate level.
Possession of HNC an advantage.
For an immediate appointment, please send an application form to the Principal, Bristol Technical College, Bristol.

BARNET

BARNET COLLEGE
Applications are invited for the following posts for September 1st, 1975:
FACULTY OF ART
LECTURER 1 in JEWELLERY SILVERSMITHING
LECTURER 1 in FASHION DRESS-MAKING
FACULTY OF TECHNOLOGY
LECTURER 1 in COMPUTER MATHEMATICS
LECTURER 1 in PHYSICS and MATHEMATICS

Only in accordance with the Barnet Further Education Scheme, plus London Allowance.
Temporary housing accommodation for the post holder is available in Barnet. The post holder will be required to provide a personal car.
Further particulars and application forms are available from the Principal, Barnet College, Wood Lane, Barnet, London N4 3JF. Closing date for receipt of applications—1st June.

J. P. Davies, Director of Educational Services.

BERKSHIRE

EDUCATION COMMITTEE
Applications are invited for the following posts for September 1975:
LECTURER in MECHANICAL ENGINEERING
The successful candidate will be responsible for the management of the Mechanical Engineering Department. The post involves teaching in a range of National Certificate and Technician Courses.

BRISTOL

BRISTOL TECHNICAL COLLEGE
Applications are invited for the following posts for September 1st, 1975:
LECTURER 1 in BRICKWORK to teach to Craft Certificate level.
Possession of HNC an advantage.
For an immediate appointment, please send an application form to the Principal, Bristol Technical College, Bristol.

BRISTOL

BRISTOL TECHNICAL COLLEGE
Applications are invited for the following posts for September 1st, 1975:
LECTURER 1 in BRICKWORK to teach to Craft Certificate level.
Possession of HNC an advantage.
For an immediate appointment, please send an application form to the Principal, Bristol Technical College, Bristol.

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Possession of HNC an advantage.
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LECTURER 1 in BRICKWORK to teach to Craft Certificate level.
Possession of HNC an advantage.
For an immediate appointment, please send an application form to the Principal, Bristol Technical College, Bristol.

BRISTOL

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LECTURER 1 in BRICKWORK to teach to Craft Certificate level.
Possession of HNC an advantage.
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BRISTOL

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Applications are invited for the following posts for September 1st, 1975:
LECTURER 1 in BRICKWORK to teach to Craft Certificate level.
Possession of HNC an advantage.
For an immediate appointment, please send an application form to the Principal, Bristol Technical College, Bristol.

Central Region Education Department

FALKIRK COLLEGE OF TECHNOLOGY

Applications are invited for the under-noted lecturing posts from persons holding the requisite qualifications. Applicants should have appropriate experience in industry or commerce. Previous full-time teaching experience is desirable, but not essential. Where necessary, an opportunity will be given to the person appointed to undertake study for a teaching qualification (Further Education) on an in-service basis.

Building and Civil Engineering (Lecturer B)

Degree or Associate Degree in Building or Civil Engineering, preferably with appropriate Professional Qualification.

The post involves teaching in a range of National Certificate and Technician Courses.

Business Studies (Lecturer B) (Two posts)

Degree in Business Studies, preferably at Honours level, or appropriate Professional Qualification.

The posts involve teaching in a range of SCOTBEC and/or other courses, and from the range of subjects—Accounts, General Principles of Social Law, Office Organisation, Commercial Arithmetic.

Catering Subjects (Lecturer B)

Diploma of the Scottish Hotel School (University of Strathclyde) or Certificate of Corporate Membership by examination of either the Hotel and Catering Institute (M.H.C.I.) or the Institutional Management Association (I.M.A.), or other appropriate City and Guilds Catering Qualification, together with acceptable general educational qualifications (S.C.E. 'O' Grades).

The post involves teaching in a range of City and Guilds Courses.

Computer Studies (Lecturer A)

Degree, preferably at Honours level, or equivalent qualification in Computer Studies or other appropriate related subject with high computing content.

The post involves teaching Data Processing and Systems Analysis to commercial and technical students in a range of courses, up to H.N.D. level.

Computer Studies (Lecturer B)

Similar to Post A. The teaching work involved will be at a somewhat lower level.

General Studies (Lecturer B)

Honours or Ordinary Degree in Arts, with an appropriate group of subjects.

The post involves teaching General Studies according to prepared syllabuses for a range of technical and commercial courses. This opportunity may also arise for applicants, with previous experience of S.C.E. presentation, to take classes in appropriate S.C.E. subjects. A practical knowledge of Communications and Drama would be an advantage.

BUCKINGHAMSHIRE

BUCKINGHAMSHIRE COLLEGE OF TECHNOLOGY
Applications are invited for the following posts for September 1975:
LECTURER in MECHANICAL ENGINEERING
The successful candidate will be responsible for the management of the Mechanical Engineering Department. The post involves teaching in a range of National Certificate and Technician Courses.

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BUCKINGHAMSHIRE

COLLEGES OF FURTHER EDUCATION Other Appointments continued

LINCOLNSHIRE
COLLEGE OF FURTHER
EDUCATION
Doncaster. Applications are invited for the following posts vacant from 1st September 1975.

LECTURER 1 IN MODERN LANGUAGES (French, German and Spanish). A full-time post. The holder will be responsible for the teaching of the above languages and will also be responsible for the co-ordination of the language department. The successful candidate will have a degree in a relevant subject and will have taught the above languages for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, Lincoln College of Further Education, Doncaster, or to the Secretary, Lincoln College of Further Education, Doncaster, or to the Secretary, Lincoln College of Further Education, Doncaster.

LINCOLNSHIRE
COLLEGE OF FURTHER
EDUCATION
Doncaster. Applications are invited for the following posts vacant from 1st September 1975.

LECTURER 1 IN KNIT AND WEAVE
A qualified designer with a practical knowledge of knit and weave and a minimum of five years' experience in the textile industry. The holder will be responsible for the teaching of knit and weave and will also be responsible for the co-ordination of the textile department. The successful candidate will have a degree in a relevant subject and will have taught the above subjects for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, Lincoln College of Further Education, Doncaster, or to the Secretary, Lincoln College of Further Education, Doncaster, or to the Secretary, Lincoln College of Further Education, Doncaster.

LONDON
INNER LONDON EDUCATION
AUTHORITY
LONDON COLLEGE OF
DESIGN AND TECHNOLOGY
Applications are invited for the following posts vacant from 1st September 1975.

LECTURER 1 IN GRAPHIC DESIGN AND PHOTOGRAPHY
A qualified designer with a practical knowledge of graphic design and photography and a minimum of five years' experience in the design industry. The holder will be responsible for the teaching of graphic design and photography and will also be responsible for the co-ordination of the design department. The successful candidate will have a degree in a relevant subject and will have taught the above subjects for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, London College of Design and Technology, or to the Secretary, London College of Design and Technology, or to the Secretary, London College of Design and Technology.

LONDON
INNER LONDON EDUCATION
AUTHORITY
SOUTH-WEST LONDON
COLLEGE OF FURTHER
EDUCATION
Applications are invited for the following posts vacant from 1st September 1975.

LECTURER 1 IN BUSINESS STUDIES
A qualified teacher with a minimum of five years' experience in the teaching of business studies. The holder will be responsible for the teaching of business studies and will also be responsible for the co-ordination of the business studies department. The successful candidate will have a degree in a relevant subject and will have taught the above subject for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, South-West London College of Further Education, or to the Secretary, South-West London College of Further Education, or to the Secretary, South-West London College of Further Education.

LONDON
INNER LONDON EDUCATION
AUTHORITY
LONDON COLLEGE OF
DESIGN AND TECHNOLOGY
Applications are invited for the following posts vacant from 1st September 1975.

LECTURER 1 IN KNIT AND WEAVE
A qualified designer with a practical knowledge of knit and weave and a minimum of five years' experience in the textile industry. The holder will be responsible for the teaching of knit and weave and will also be responsible for the co-ordination of the textile department. The successful candidate will have a degree in a relevant subject and will have taught the above subjects for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, London College of Design and Technology, or to the Secretary, London College of Design and Technology, or to the Secretary, London College of Design and Technology.

LONDON, S.E.1
SOUTHWEST LONDON
COLLEGE OF FURTHER
EDUCATION
Applications are invited for the following posts vacant from 1st September 1975.

LECTURER 1 IN BUSINESS STUDIES
A qualified teacher with a minimum of five years' experience in the teaching of business studies. The holder will be responsible for the teaching of business studies and will also be responsible for the co-ordination of the business studies department. The successful candidate will have a degree in a relevant subject and will have taught the above subject for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, Southwest London College of Further Education, or to the Secretary, Southwest London College of Further Education, or to the Secretary, Southwest London College of Further Education.

LONDON, W.8
INNER LONDON EDUCATION
AUTHORITY
Hammersmith and West
Brompton College of
Further Education
Applications are invited for the following posts vacant from 1st September 1975.

LECTURER 1 IN BUSINESS STUDIES
A qualified teacher with a minimum of five years' experience in the teaching of business studies. The holder will be responsible for the teaching of business studies and will also be responsible for the co-ordination of the business studies department. The successful candidate will have a degree in a relevant subject and will have taught the above subject for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, Hammersmith and West Brompton College of Further Education, or to the Secretary, Hammersmith and West Brompton College of Further Education, or to the Secretary, Hammersmith and West Brompton College of Further Education.

LONDON
INNER LONDON EDUCATION
AUTHORITY
LONDON COLLEGE OF
DESIGN AND TECHNOLOGY
Applications are invited for the following posts vacant from 1st September 1975.

LECTURER 1 IN KNIT AND WEAVE
A qualified designer with a practical knowledge of knit and weave and a minimum of five years' experience in the textile industry. The holder will be responsible for the teaching of knit and weave and will also be responsible for the co-ordination of the textile department. The successful candidate will have a degree in a relevant subject and will have taught the above subjects for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, London College of Design and Technology, or to the Secretary, London College of Design and Technology, or to the Secretary, London College of Design and Technology.

LONDON, S.E.1
SOUTHWEST LONDON
COLLEGE OF FURTHER
EDUCATION
Applications are invited for the following posts vacant from 1st September 1975.

LECTURER 1 IN BUSINESS STUDIES
A qualified teacher with a minimum of five years' experience in the teaching of business studies. The holder will be responsible for the teaching of business studies and will also be responsible for the co-ordination of the business studies department. The successful candidate will have a degree in a relevant subject and will have taught the above subject for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, Southwest London College of Further Education, or to the Secretary, Southwest London College of Further Education, or to the Secretary, Southwest London College of Further Education.

LONDON, W.8
INNER LONDON EDUCATION
AUTHORITY
Hammersmith and West
Brompton College of
Further Education
Applications are invited for the following posts vacant from 1st September 1975.

LECTURER 1 IN BUSINESS STUDIES
A qualified teacher with a minimum of five years' experience in the teaching of business studies. The holder will be responsible for the teaching of business studies and will also be responsible for the co-ordination of the business studies department. The successful candidate will have a degree in a relevant subject and will have taught the above subject for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, Hammersmith and West Brompton College of Further Education, or to the Secretary, Hammersmith and West Brompton College of Further Education, or to the Secretary, Hammersmith and West Brompton College of Further Education.

NORTH YORKSHIRE
COLLEGE OF FURTHER
EDUCATION
Leeds. Applications are invited for the following posts vacant from 1st September 1975.

LECTURER 1 IN BUSINESS STUDIES
A qualified teacher with a minimum of five years' experience in the teaching of business studies. The holder will be responsible for the teaching of business studies and will also be responsible for the co-ordination of the business studies department. The successful candidate will have a degree in a relevant subject and will have taught the above subject for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, North Yorkshire College of Further Education, or to the Secretary, North Yorkshire College of Further Education, or to the Secretary, North Yorkshire College of Further Education.

NORTH YORKSHIRE
COLLEGE OF FURTHER
EDUCATION
Leeds. Applications are invited for the following posts vacant from 1st September 1975.

LECTURER 1 IN BUSINESS STUDIES
A qualified teacher with a minimum of five years' experience in the teaching of business studies. The holder will be responsible for the teaching of business studies and will also be responsible for the co-ordination of the business studies department. The successful candidate will have a degree in a relevant subject and will have taught the above subject for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, North Yorkshire College of Further Education, or to the Secretary, North Yorkshire College of Further Education, or to the Secretary, North Yorkshire College of Further Education.

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SOMERSET
COLLEGE OF FURTHER
EDUCATION
Bristol. Applications are invited for the following posts vacant from 1st September 1975.

LECTURER 1 IN BUSINESS STUDIES
A qualified teacher with a minimum of five years' experience in the teaching of business studies. The holder will be responsible for the teaching of business studies and will also be responsible for the co-ordination of the business studies department. The successful candidate will have a degree in a relevant subject and will have taught the above subject for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, Somerset College of Further Education, or to the Secretary, Somerset College of Further Education, or to the Secretary, Somerset College of Further Education.

SOMERSET
COLLEGE OF FURTHER
EDUCATION
Bristol. Applications are invited for the following posts vacant from 1st September 1975.

LECTURER 1 IN BUSINESS STUDIES
A qualified teacher with a minimum of five years' experience in the teaching of business studies. The holder will be responsible for the teaching of business studies and will also be responsible for the co-ordination of the business studies department. The successful candidate will have a degree in a relevant subject and will have taught the above subject for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, Somerset College of Further Education, or to the Secretary, Somerset College of Further Education, or to the Secretary, Somerset College of Further Education.

SOMERSET
COLLEGE OF FURTHER
EDUCATION
Bristol. Applications are invited for the following posts vacant from 1st September 1975.

LECTURER 1 IN BUSINESS STUDIES
A qualified teacher with a minimum of five years' experience in the teaching of business studies. The holder will be responsible for the teaching of business studies and will also be responsible for the co-ordination of the business studies department. The successful candidate will have a degree in a relevant subject and will have taught the above subject for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, Somerset College of Further Education, or to the Secretary, Somerset College of Further Education, or to the Secretary, Somerset College of Further Education.

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LECTURER 1 IN BUSINESS STUDIES
A qualified teacher with a minimum of five years' experience in the teaching of business studies. The holder will be responsible for the teaching of business studies and will also be responsible for the co-ordination of the business studies department. The successful candidate will have a degree in a relevant subject and will have taught the above subject for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, Somerset College of Further Education, or to the Secretary, Somerset College of Further Education, or to the Secretary, Somerset College of Further Education.

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A qualified teacher with a minimum of five years' experience in the teaching of business studies. The holder will be responsible for the teaching of business studies and will also be responsible for the co-ordination of the business studies department. The successful candidate will have a degree in a relevant subject and will have taught the above subject for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, Somerset College of Further Education, or to the Secretary, Somerset College of Further Education, or to the Secretary, Somerset College of Further Education.

SOMERSET
COLLEGE OF FURTHER
EDUCATION
Bristol. Applications are invited for the following posts vacant from 1st September 1975.

LECTURER 1 IN BUSINESS STUDIES
A qualified teacher with a minimum of five years' experience in the teaching of business studies. The holder will be responsible for the teaching of business studies and will also be responsible for the co-ordination of the business studies department. The successful candidate will have a degree in a relevant subject and will have taught the above subject for a minimum of five years. The salary is £2,600 p.a. plus pension and other benefits. Applications should be sent to the Principal, Somerset College of Further Education, or to the Secretary, Somerset College of Further Education, or to the Secretary, Somerset College of Further Education.

COLLEGES AND DEPARTMENTS OF ART
continued

WILTSHIRE
COLLEGE OF FURTHER
EDUCATION
Salisbury. Applications are invited for the following posts vacant from 1st September 1975.

WILTSHIRE
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EDUCATION
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WILTSHIRE
COLLEGE OF FURTHER
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Salisbury. Applications are invited for the following posts vacant from 1st September 1975.

LINCOLNSHIRE
COLLEGE OF FURTHER
EDUCATION
Doncaster. Applications are invited for the following posts vacant from 1st September 1975.

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SALEFORD
COLLEGE OF FURTHER
EDUCATION
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BRISTOL
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JORDANHILL
COLLEGE OF EDUCATION
GLASGOW
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MANCHESTER
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TIMES HIGHER EDUCATION SUPPLEMENT

The THES now carries more university (both UK and overseas) and polytechnic appointment advertising. To date this year, monitored figures record an outstanding performance far ahead of the other papers used for higher education appointments advertising.

No wonder that more academics nominate the THES as "the most useful publication" for finding a new job.

For further facts and details of advertising, please write or telephone John Ladbroke, Advertisement Manager, Times Higher Education Supplement, P.O. Box 7, New Printing House Square, Gray's Inn Road, London WC1X 8EZ. 01-837 1234 extension 7380.

COUNTY OF SOUTH GLAMORGAN WELSH COLLEGE OF MUSIC AND DRAMA SENIOR LECTURER IN DRAMA

Applications are now invited for the above post to take effect from the beginning of the Autumn Term. The successful candidate will be required to assist in the Graduate Diploma Course.

Graduate and teaching qualifications and professional experience in play production essential. Ability to assist in one or more of the following specialisms would be an advantage: Drama/Theatre in Education; Theatre History; Design.

Application forms for the above post obtainable from the Registrar, Welsh College of Music and Drama, Castle Grounds, Cathays Park, Cardiff, CF1 3ER, Cardiff CF1 3ER, and should be returned within two weeks of the appearance of this advertisement.

F. J. ADAMS,
Director of Education.

City of Liverpool F. L. Calder College of Education Dowsefield Lane, Liverpool L18 3JJ Applications are invited for appointment as

LECTURER (II)

in the Home and Professional Studies Dept., tenable from 1st September, 1975, or 1st January, 1976. Applicants should be trained teachers holding either a specialist qualification in Home Economics, with bias towards social/community aspects, or an honours degree in Social Science including, for example, Social Administration and Urban Studies. The successful candidate will have opportunity to work at final degree and Certificate in Education levels.

Salary: Payscale Scale £2,670-£4,478. The closing date for applications is 11th June. Further details may be obtained from the Principal.

Tel: 051 428 4041.

Surveys N.O.P. Ltd.

Northampton College of Further Education

St. Gregory's Road, Booth Lane South, Northampton, NN3 5BA.
Telephone: Northampton 48131.

Applications are invited from suitably qualified teachers for the following posts which are vacant from September, 1975.

LECTURER GRADE I To be Pre-Nursing Course Tutor

and to teach Human Biology to GCE 'O' level. Experience in the Health Service desirable, but not essential.

LECTURER GRADE I In Secretarial Subjects

To teach shorthand, Typewriting and Office Practice. Commercial experience and the ability to teach background commercial subjects would be an advantage.

LECTURER GRADE I (Temporary Position)

To teach General Studies to a wide range of full-time and part-time students. There may be opportunity for a suitably qualified candidate to teach GCE courses in Biology. This post is until 31st August, 1976, only, owing to the absence on a course of a full-time member of staff.

Further details and application forms, which should be returned by 6th June, may be obtained from the Registrar of the College.

Bahrain Petroleum Company Limited AWALI SCHOOL

A suitably qualified Teacher, male or female, with at least 7 years experience, is required for September to teach general subjects to a 4th year form in the Junior Department. The children in this form are prepared for entrance, at age 11 plus, to independent schools in the U.K. Applicants should also be qualified to offer PE, Games and Craftwork. Awali School, for children of expatriate staff of the Bahrain Petroleum Company Limited, has an enrolment of around 200 and is pleasantly situated in well appointed premises. Salary (at present tax free) will be dependent on age, qualifications and experience and will be not less than £251 per month plus a differential cost of living allowance equivalent to £92 per month married or £69 per month single, with free air-conditioned accommodation and other utilities, free medical attention etc. Teachers' U.K. Pensions can be safeguarded. Candidates aged between 26-35 years should submit brief personal details in confidence, requesting an application form to: Caltex (U.K.) Limited, Personnel Relations Department, 30 Old Burlington Street, LONDON W1X 2AR.



EDUCATION DEPARTMENT

Youth Officers

£3,540-£4,092
Soulbury Main Range 12-16

Youth Officers are required in the East Riding and Souththorpe Divisions of the Humberside Education Department. These are third tier appointments and the persons appointed will be responsible to a Senior Youth Officer. Applicants should be qualified, experienced Youth Workers.

EAST RIDING DIVISION

The Youth Officer will develop Youth Work in the southern half of North Humberside excluding Kingston upon Hull. Re-organisation disbursements are under consideration.

SCUNTHORPE DIVISION

The Youth Officer will develop Youth Work in either Glanford or Scunthorpe. Re-organisation disbursements are under consideration.

Further information and application forms are available from Director of Education, Further Education Section, County Hall, Beverley, North Humberside. Completed forms should be returned within two weeks of the appearance of this advertisement.

Humberside County Council

BRUNEI

ADULT EDUCATION Appointments continued

DERRYSHIRE

EDUCATION COMMITTEE:
The Education Committee of Derryshire County Council is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, Derryshire County Council, 100 High Street, Derryshire, Notts. Closing date 10th June 1975.

KIRKLEES

EDUCATION COMMITTEE:
The Education Committee of Kirklees Metropolitan Council is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, Kirklees Metropolitan Council, 100 High Street, Kirklees, W. Yorks. Closing date 10th June 1975.

LANCASHIRE

EDUCATION COMMITTEE:
The Education Committee of Lancashire County Council is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, Lancashire County Council, 100 High Street, Lancashire, W. Lancs. Closing date 10th June 1975.

LONDON

INNER LONDON EDUCATION AUTHORITY:
The Inner London Education Authority is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, Inner London Education Authority, 100 High Street, London, W. London. Closing date 10th June 1975.

DEVON

EDUCATION COMMITTEE:
The Education Committee of Devon County Council is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, Devon County Council, 100 High Street, Devon, W. Devon. Closing date 10th June 1975.

LONDON INNER LONDON EDUCATION AUTHORITY

WOLVICH ADULT EDUCATION OFFICER:
The Inner London Education Authority is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, Inner London Education Authority, 100 High Street, London, W. London. Closing date 10th June 1975.

CITY OF MANCHESTER

EDUCATION COMMITTEE:
The Education Committee of the City of Manchester is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, City of Manchester, 100 High Street, Manchester, W. Manchester. Closing date 10th June 1975.

OXFORDSHIRE

EDUCATION COMMITTEE:
The Education Committee of Oxfordshire County Council is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, Oxfordshire County Council, 100 High Street, Oxford, W. Oxford. Closing date 10th June 1975.

Community Homes and Associated Institutions

DEVON

EDUCATION COMMITTEE:
The Education Committee of Devon County Council is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, Devon County Council, 100 High Street, Devon, W. Devon. Closing date 10th June 1975.

CITY OF LIVERPOOL EDUCATION COMMITTEE

ADULT EDUCATION OFFICER:
The Education Committee of the City of Liverpool is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, City of Liverpool, 100 High Street, Liverpool, W. Liverpool. Closing date 10th June 1975.

CITY OF MANCHESTER

EDUCATION COMMITTEE:
The Education Committee of the City of Manchester is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, City of Manchester, 100 High Street, Manchester, W. Manchester. Closing date 10th June 1975.

OXFORDSHIRE

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Community Homes and Associated Institutions

DEVON

EDUCATION COMMITTEE:
The Education Committee of Devon County Council is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, Devon County Council, 100 High Street, Devon, W. Devon. Closing date 10th June 1975.

WARWICKSHIRE COUNTY COUNCIL

EDUCATION DEPARTMENT:
The Education Department of Warwickshire County Council is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, Warwickshire County Council, 100 High Street, Warwick, W. Warwick. Closing date 10th June 1975.

CITY OF MANCHESTER

EDUCATION COMMITTEE:
The Education Committee of the City of Manchester is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, City of Manchester, 100 High Street, Manchester, W. Manchester. Closing date 10th June 1975.

OXFORDSHIRE

EDUCATION COMMITTEE:
The Education Committee of Oxfordshire County Council is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, Oxfordshire County Council, 100 High Street, Oxford, W. Oxford. Closing date 10th June 1975.

Community Homes and Associated Institutions

DEVON

EDUCATION COMMITTEE:
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THE TIMES EDUCATIONAL SUPPLEMENT 23.5.75

EDUCATION DEPARTMENT

LEADER (MALE or FEMALE)

At Woodford Street Youth Centre with effect from 1st September, 1975.

Salary within Range 3 of J.N.C.
£2,577 to £2,913

The person appointed will join a team of youth workers and will work with them in the development of the area.

APPLICATION FORMS are obtainable from the Chief Personnel Officer (Ref. W211), Civic Centre, Millgate, Wigan, Closing date 30th June, 1975. Canvassing members of the Council either directly or indirectly will disqualify applicants.

Metropolitan Borough of WIGAN

County of Cleveland EDUCATION DEPARTMENT

Applications are invited for the following vacancies in the Youth and Community Service:

SECOND YOUTH TUTOR—Burnham Scale 2
required at Brierion Youth Centre, Brierion Lane, Harlepool.

YOUTH TUTOR—Burnham Scale 3
required at Marske Youth Club, Bydals Secondary School, Marlborough Road, Marske.

In approved cases, financial assistance with house-hold removal expenses will be available and the Council may provide mortgage facilities. Temporary housing accommodation for married couples may be available in approved cases, within the County area.

Closing date 8th June, 1975.

Application forms and further details are available from the County Education Officer, Education Offices, Woodlands Road, Middlesbrough, Cleveland TS1 3BN.

Metropolitan Borough of Stockport

RECREATION & CULTURE DIVISION

AREA YOUTH WORKER

NORTH AREA
(JNC3 4-8 £2,892-£3,228 inc.)
(Starting point in accordance with age, qualifications and experience.)

It is essential that the applicant be qualified in accordance with JNC for Youth and Community Workers' requirements. Duties in accordance with JNC for Youth and Community Workers, i.e. 10 sessions per week of which not more than 8 sessions per fortnight should be evening sessions.

Application forms can be obtained from:
The Chief Personnel Adviser,
The Old Rectory, Churchgate,
Stockport, 061-480 6138

London Borough of Redbridge Education Department

Assistant Manager Wanstead Sports Centre

Grade: AP 4-5 (£3,097-£3,691 including London Weighting and Threshold Payments)

This new sports complex, due open in September 1976, is adjacent to a large comprehensive school and includes a Sports Hall and four squash courts. There is also a gymnasium and open air pool on the site.

Applicants should be suitably qualified and able to assist with the day to day management of the Centre.

Application forms and further particulars are available from the Chief Education Officer, Education Office, P.O. Box No. 11, 265-266 High Road, Ilford, Essex IG1 1NN, and should be returned by 8th June 1975.

YOUTH AND COMMUNITY SERVICE continued

DORSET
The Dorset County Council is seeking applications for the post of Youth and Community Worker. The successful candidate will be responsible for the development and co-ordination of youth and community work in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, Dorset County Council, 100 High Street, Dorset, W. Dorset. Closing date 10th June 1975.

HERTFORDSHIRE

EDUCATION COMMITTEE:
The Education Committee of Hertfordshire County Council is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, Hertfordshire County Council, 100 High Street, Hertford, W. Hertford. Closing date 10th June 1975.

KENT

EDUCATION COMMITTEE:
The Education Committee of Kent County Council is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, Kent County Council, 100 High Street, Kent, W. Kent. Closing date 10th June 1975.

LANCASHIRE

EDUCATION COMMITTEE:
The Education Committee of Lancashire County Council is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, Lancashire County Council, 100 High Street, Lancashire, W. Lancs. Closing date 10th June 1975.

LEICESTERSHIRE

EDUCATION COMMITTEE:
The Education Committee of Leicestershire County Council is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, Leicestershire County Council, 100 High Street, Leicestershire, W. Leics. Closing date 10th June 1975.

LIVERPOOL

EDUCATION COMMITTEE:
The Education Committee of the City of Liverpool is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, City of Liverpool, 100 High Street, Liverpool, W. Liverpool. Closing date 10th June 1975.

LONDON

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MANCHESTER

EDUCATION COMMITTEE:
The Education Committee of the City of Manchester is seeking applications for the post of Adult Education Officer. The successful candidate will be responsible for the development and co-ordination of adult education in the district. The post is a full-time position and the successful candidate will be required to travel throughout the district. The salary is £10,000 per annum. Applications should be sent to the Director of Education, City of Manchester, 100 High Street, Manchester, W. Manchester. Closing date 10th June 1975.

The British Council

invites applications for the following posts:

British Schools, Montevideo (Uruguay)

Post 1—Head of Arts Department, including History and English teaching; Immune graduate with 3 years' relevant experience.
Post 2—Teacher of Geography/History: graduate or college-trained teacher with 2 years' relevant experience.
Amen (without children) preferred; help with drama or Rugby appreciated; knowledge of Spanish desirable.
Salary: Burnham (post 1 Scale 2; post 2 Scale 1).
Benefits: overseas allowance; accommodation subsidy; medical scheme; employers' portion of UK superannuation. Three-year contracts, renewable. 75 DS 124-125

Three Technical Instructors (Qatar)

Regional Training Centre, Doha Industrial Instrumentation Power Station and Distillation Plant Operators Electrical Trades
Candidates: men only, UK citizens with British educational background, must have relevant CGLI Final Certificate and several years' teaching and industrial experience.
Salary: £3,575 rising to £4,550 p.a., tax free.
Benefits: free accommodation, electricity and water; car and equipment allowances; terminal gratuity; two months annual passage-paid leave. One year contract, renewable. 75 AO 52-54

Teacher of Mathematics and Physics (Bahrain)

The Bahrain School, Jufair
Relevant degree essential and 2 years' teaching experience desirable. Newly qualified teachers considered.
Salary: £2,445-£2,635 p.a., tax free.
Benefits: living and housing allowances; two months annual passage-paid leave. One year contract, renewable. 75 AS 78

Return fares are paid. Local contracts are guaranteed by the British Council. Please write, briefly stating qualifications and length of appropriate experience; quote relevant reference number for further details and an application form to The British Council (Appointments), 65 Davies Street, London W1Y 2AA.

HONGKONG GOVERNMENT

Applications are invited by the Kwun Tong and Kwai Chung Technical Institutes for the following posts, tenable for 23 years on contract, to commence in September 1975, or as soon as possible thereafter.

Clothing Industries

Principal Lecturers - 2
Heads of Departments
£5,837 - £7,123

Senior Lecturer
£4,407 - £5,639

Initially advising on installation of machines, purchasing of equipment, recruitment of staff and syllabus planning for these newly established departments. Duties thereafter will include supervision of departmental staff, occasional teaching and course revision.

Applicants should possess a relevant degree or professional qualification or technical qualification and substantial appropriate experience. Please apply for further details to Recruitment Section, TEYO (Council for Technical Education and Training for Overseas Countries), 35/37 Grosvenor Gardens, London SW1W 0BS. (Phone No. 01-828 6751 Ext. 44). Closing date for receipt of applications June 23rd.

Recruitment for Technical Education Overseas
tetoc

Arya National Shipping Lines

the National Shipping Line of Iran will have a vacancy in August for an

ENGLISH TEACHER

in their training ship carrying about 20 cadets and operating a cargo service to the Persian Gulf, United States and Japan.

The successful applicant should be capable of teaching Iranian cadets to ordinary and advanced levels and a degree in English would be a distinct advantage.

The initial contract for this position is for one year and will be renewable. Salary will be by negotiation. Please reply with curriculum vitae to:

ARYA NATIONAL SHIPPING LINES
Zahedi House, 133/135 Borough High Street, London, S.E.1.

133/135 BOROUGH HIGH STREET, LONDON, S.E.1

Mid Glamorgan COUNTY COUNCIL

EDUCATION DEPARTMENT APPOINTMENT OF DISTRICT EDUCATION OFFICERS

Applications are invited for the following posts—

1. TAFF ELY DISTRICT
2. RHYMNEY VALLEY DISTRICT

Salary scale, £5,643 to £6,189 per annum

Applicants must possess a Degree of a university in the United Kingdom, and must have had suitable full-time teaching experience or experience in educational administration. (Experience in educational administration is defined as rendered in a full-time post in the Education Department of a Local Authority.)

NATIONAL CONDITIONS OF SERVICE

Application forms, which should be returned within 14 days of the appearance of this advertisement, and further particulars, obtained from the Director of Education, County Hall, Cardiff CF1 3NF, on receipt of a stamped addressed foolscap envelope.

YOUTH AND COMMUNITY SERVICE continued

LONDON

INNER LONDON EDUCATION AUTHORITY

BUR SETTLEMENT PROJECT

EDUCATION DEPARTMENT

APPOINTMENT OF DISTRICT EDUCATION OFFICERS

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LONDON COMMUNITY SERVICE continued

LONDON

INNER LONDON EDUCATION AUTHORITY

BUR SETTLEMENT PROJECT

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EDUCATION DEPARTMENT

STAFF TRAINER

If you are between the ages of 25 and 45, already in a Training Department: a Trained Instructor or a Qualified Teacher—perhaps wishing to return to a career after bringing up a family—then this Executive Appointment may be the right niche for you, so why not apply?

Responsibilities include the organisation of all internal and external training, liaison with Education Authorities and Training Boards, implementation of internal training with the Staff Training Assistant and deputising for the Staff Manager.

Executives and Staff number about 800. Four weeks and three days annual holiday; five day week; discount on store purchases; temporary living accommodation available.

Written applications, stating date of birth, qualifications, present employment and salary required, to:

Managing Director, David Morgan Ltd., 26 The Hayes, Cardiff, CF1 1UG.

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Education and
Cultural Services Committee

AREA CATERING ADVISER

Salary £2,937-£3,447 per annum plus threshold payments of £228 p.a. (Soulbury 9-13)

A Catering Adviser is required for the Central Somerset (Bridgwater) area to complete a team of four. Candidates, with appropriate professional qualifications, would be welcomed from the general field of welfare and institutional catering.

Application forms and full details of this post are obtainable from the Chief Education Officer, Staffing (NT) Section, Education Department, County Hall, Taunton, to whom applications should be returned by Monday, 2nd June.

SENIOR SCHOOL MEALS ORGANISER

Salary in Soulbury Senior Range £3,447-£3,999 per annum. Plus London weighting and threshold payments.

Candidates must possess an appropriate qualification in Institutional Management or Domestic Science and have suitable experience in large scale catering, preferably in the School Meals Service.

Essential user car allowance will be paid.

Application form and further particulars from the Chief Education Officer, Regal House, London Road, Twickenham, Middlesex, returnable by 9th June, 1975.

London Borough of
RICHMOND UPON THAMES

THE COUNTY OF SOUTH GLAMORGAN Education Department

SENIOR ADMINISTRATIVE ASSISTANT (REF 81) (DEVELOPMENT AND BUILDINGS) (APS £2,213-£3,432)

The successful applicant will be a member of the Forward Planning Team. His work will involve the assessment of educational needs arising from new housing developments or new policies. He will be expected to take responsibility for the preparation, analysis and interpretation of educational statistics and must be proficient at report writing. Experience of similar work will be an advantage.

Application forms are available from the Personnel Officer, County of South Glamorgan, County Headquarters, Newport Road, Cardiff (Tel. No. 459022, Ext. 3412). Completed application forms must be returned by 6th June 1975.

City of Salford

EDUCATION DEPARTMENT ASSISTANT EDUCATION OFFICER Schools £4,953-£5,508-PO4

Applications are invited from men and women with administrative and teaching experience for this third tier post the duties of which include responsibility for the staffing of the authority's schools, allocation of pupils to schools, the meetings of managers and governors and general policy planning.

POST REFERENCE 1083/TE5

This post is permanent, superannuable and subject to medical examination. Commencing salary will reflect experience and qualifications. Please write for an application form to the Personnel Manager, Civic Centre, Salford, M27 2AD, to whom they should be returned by 6th June, 1975.

CAREERS OFFICERS—

for Older/
Able Pupils—Escher
and Further
and Higher Education—Reigate

Candidates should have a degree or equivalent qualification and be qualified for and experienced in the work of the Careers Service.

Salary at Escher—AP4/5 (£2,925-£3,432) and at Reigate SO1 (£3,555-£3,804) both plus Surrey Allowance (£180 p.a.).

Car mileage and subsistence expenses payable and Surrey offers generous relocation expenses and mortgage facilities in approved cases. Temporary accommodation may be available. Closing date: two weeks after appearance of this advertisement.

Further details and application forms from the County Education Officer, County Hall, Kingston upon Thames, KT1 2DJ. Tel: 01-548 1050 Ext. 3484.



Senior Administrative Assistant

Salary: £3,816-£4,065 per annum inclusive

The Authority seeks a mature, experienced and qualified person to take on the role of office manager in charge of the central secretarial functions of the Education Department. This key co-ordinating role involving liaison with all branches of the Service, the maintenance of internal office routines and documentation control requires an understanding of office management skills, tact and flexibility.

The Council offer 100 per cent removal expenses, legal and estate agents fees up to £500 and lodging allowances. A flexible working hours scheme is in operation.

Application forms and further details available from the Chief Education Officer, Hadley House, 79/81 Uxbridge Road, Ealing W5 5SU. Forms to be returned within fourteen days of the appearance of this advertisement.



Education Service

TRAINEE CAREERS OFFICER

Applications are invited for the post of Trainee Careers Officer in the County Careers Service. Applicants should preferably have a degree or similar qualifications as well as being able to offer at least twelve months full-time employment. After a short period of induction, the successful applicant will be seconded on full salary to a full-time course of professional training lasting one academic year. Any appointment to this post will be conditional upon the acceptance of the person appointed on to a suitable course of training.

Salary will be on Trainee Scale with a maximum of £2,154 starting point depending upon age, qualifications and experience. The minimum starting point for a graduate will be £1,839. In addition other miscellaneous expenses during the course will be paid, including tuition, and board and lodging.

On successful completion of a course of training the person appointed will be expected to accept a careers officer post on a minimum £2,286 rising to a maximum of £2,769.

Application forms, together with further details, are available from the Personnel Officer, County Secretary's Department, County Hall, George Row, Northampton, Tel: 043833. Ext: 5237, and should be returned by 5 June, 1975.



COUNTY OF AVON

Education Service

ASSISTANT EDUCATION OFFICER (SCHOOLS)

Salary PO2 (1-5) £4,953-£5,508

This is a fourth tier post, open to men and women, and offering promising career prospects. The officer will work in a team responsible for the management and development of school provision and concerned with organizational issues, the assessment of needs, staffing, and the maintenance of direct relationships with schools. Primary and Secondary teaching experience is an essential qualification, previous administrative experience desirable. Assistance with removal expenses and legal fees where appropriate.

Further details and application form returnable by 9th June, from Director of Personnel and Management Services (Tel. Bristol 298555), Avon House, The Haymarket, Bristol BS59 7DE. Please quote reference number ED 124.



BOROUGH OF SUNDERLAND

EDUCATION DEPARTMENT

CAREERS SERVICE

SENIOR CAREERS OFFICER

APS (£3,213-£3,432)

Applications are invited from suitably qualified applicants for the above post.

Candidates should have experience in the Service and should, if possible, hold the Diploma of the Youth Employment Service Training Board or the Diploma in Vocational Guidance.

Application forms and further details obtainable from the Director of Education, Careers Office, 15 John Street, Sunderland, SR1 1HT. Closing date 6th June, 1975.

Town Hall & Civic Centre, Sunderland SR2 7DN

J. A. BLOOM

Chief Executive

Education Welfare in Northamptonshire

At the moment there are two vacancies in the service which represent an opportunity to work in an area of particular educational interest. The number of educational new schools is increasing rapidly in Northamptonshire where the present school population of 65,000 is expected to exceed 130,000 by 1981. It is currently proposed that the final stages of comprehensive reorganization of secondary schools will begin to take effect not later than September, 1976.

In each case the officer appointed must hold a current driving licence and be a car owner. A car allowance will be paid and there will be the opportunity of a loan towards the purchase of a car.

DEPUTY CHIEF EDUCATION WELFARE OFFICER

£2,830-£3,432

An experienced Welfare Officer is required for this senior position. In addition to the normal duties concerning the welfare of children, the successful applicant will have responsibilities for co-ordinating the work of other Education Welfare Officers and will have a particular involvement in court procedures.

The post is graded AP4/5 although progression on to the post of Chief Education Welfare Officer is possible. APS will be dependent upon the holder of the post.

Successful candidates will be required to act as Clerks to Governors and members of certain County Schools in addition to carrying out normal duties.

Applicants should preferably have a social work background or be familiar with the education system. Further details and application forms are available from the Personnel Officer, County Secretary's Department, County Hall, George Row, Northampton, Tel: 043833. Ext: 5237. Completed forms must be returned by 6th June, 1975.



ADMINISTRATION Local Education Authority continued

NEWHAM
(London Borough of)
EDUCATION DEPARTMENT
CHIEF OFFICER
Salary Scale £2,870-£3,030
Applications are invited from experienced candidates for the post of Chief Officer of the Education Department. The successful candidate will be responsible for the management and development of the Education Department. The post is a full-time position and requires a minimum of five years' experience in a similar post. The successful candidate will be required to act as Clerk to Governors and members of certain County Schools in addition to carrying out normal duties.

Both posts carry a substantial allowance (with associated pension) and are subject to a probationary period of 12 months. Applications should be sent to the Director of Education, County Hall, 100 Broad Street, London E.C.4, by 10.00 a.m. on 10th June, 1975.

LANCASTER
EDUCATION DEPARTMENT
CHIEF OFFICER OF THE DEPARTMENT
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WOLVERHAMPTON BOROUGH EDUCATION DEPARTMENT

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